

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG.
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH.
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II.
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ.
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. DB 608	KK.
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. DB 1701	LL.
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE.	MM.
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF.	NN.

Notes:

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

METHOD: GC / HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
Level IV/D Only
 Y N N/A Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?
 Y N N/A Did the reported results for detected target compounds agree within 10.0% of the recalculated results?

#	Compound Name	% RPD ± 40 (Act 20)	Finding	Associated Samples	Qualifications
	BB		53.08	2	J/A det * XII
	AA		55.40	3	
				3	
	Aroclor - 5460		40.65	5	
	AA		47.06	7	
	Z		107.11	9	
	AA		92.69	12	
	Z		91.96	13	
	AA		56.75	15	✓

Comments: See sample calculation verification worksheet for recalculations

LDC #: 2685923 b

VALIDATION FINDINGS WORKSHEET

Field Duplicates

Page: 1 of 1
Reviewer: FT
2nd reviewer: [Signature]

METHOD: GC HPLC

Y/N N/A Were field duplicate pairs identified in this SDG?
Y/N N/A Were target compounds detected in the field duplicate pairs?

Compound	Concentration (<u>ng/kg</u>)		%RPD Limit <u>≤50</u>	Qualification Parent only / All Samples
Aroclor - 5460	10	18	18	J/W/A (fg)
Z	8.3	6.9	200	
BB	0.76	1.74	20	
	4.5	5.5		

Compound	Concentration ()		%RPD Limit	Qualification Parent only / All Samples

LDC #: 26859R3b
 SDG #: pk copy

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
 Reviewer: FJ
 2nd Reviewer: CA

METHOD: GC HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

- CF = A/C
- average CF = sum of the CF/number of standards
- %RSD = $100 * (S/X)$
- A = Area of compound,
- C = Concentration of compound,
- S = Standard deviation of the CF
- X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF (20 std)	CF (20 std)	Average CF (Initial)	Average CF (Initial)	%RSD	%RSD		
1	1CAL 1PXS243	9/20/11	1260-1 MR-1 1260-1 MR-2	85 46	85 46	85 45	85 45	8.3 9.7	8.3 9.7		
2											
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26859236
 SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
 Reviewer: FD
 2nd Reviewer: C

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \times (\text{ave. CF} - \text{CF}) / \text{ave. CF}$ Where: ave. CF = Initial calibration average CF
 CF = A/C CF = continuing calibration CF
 A = Area of compound
 C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported		Recalculated	
					CF/Conc. CCV	%D	CF/Conc. CCV	%D
1	CON 2100	9/28/11	Aroclor 1260 MR-1	200	202.33	1.2	202.33	1.2
					195.37	2.3	195.37	2.3
2	CON 4:31	7/29/11	↓	↓	203.87	1.7	203.87	1.7
					220.26	10.1	220.26	10.1
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26 x 9R 3b
 SDG #: see cover
 METHOD: GC HPLC

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
 Reviewer: FT
 2nd reviewer: C

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100
 Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCMX	MR-1	104	1.089511	105	105	0
DCB	↓	104	1.088113	105	105	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = $100 * (SSC - SC) / SA$ Where SSC = Spiked sample concentration SC = Sample concentration
 SA = Spike added
 RPD = $(((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD)) * 100$ MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 20 42

Compound	Spike Added (ug/kg)		Sample Conc. (ug/kg)	Spike Sample Concentration (ug/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD		MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
<u>Feb-1260</u>	<u>16.64</u>	<u>16.64</u>	<u>4.46</u>	<u>12.24</u>	<u>11.70</u>	<u>47</u>	<u>47</u>	<u>44</u>	<u>44</u>	<u>5</u>	<u>5</u>

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

METHOD: GC HPLC

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Recovery} = 100 \times (\text{SSC} - \text{SC}) / \text{SA}$$

$$\text{RPD} = | \text{LCS} - \text{LCSD} | \times 2 / (\text{LCS} + \text{LCSD})$$

Where: SSC = Spiked sample concentration SC = Concentration
 SA = Spike added
 LCS = Laboratory control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS

Compound	Spike Added (ug/kg)		Spiked Sample Concentration		LCS		LCSD		Percent Recovery		LCS		LCSD		LCS/LCSD		
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	
Gasoline (8015)																	
Diesel (8015)																	
Benzene (8021B)																	
Methane (RSK-175)																	
2,4-D (8151)																	
Dinoseb (8151)																	
Naphthalene (8310)																	
Anthracene (8310)																	
HMX (8330)																	
2,4,6-Trinitrotoluene (8330)																	
<u>PeB-126 U</u>	<u>16.67</u>	<u>NA</u>	<u>17.54</u>	<u>NA</u>	<u>105</u>	<u>105</u>	<u>NA</u>	<u>105</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

LDC #: 26859R3b
 SDG #: pu goney

METHOD: GC HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration = $\frac{A(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$ Example: Sample ID: #1 Compound Name Aroclor 1260

Concentration = 0.5872
0.99

= 0.59348/kg

A= Area or height of the compound to be measured
 Fv= Final Volume of extract
 Df= Dilution Factor
 RF= Average response factor of the compound in the initial calibration
 Vs= Initial volume of the sample
 Ws= Initial weight of the sample
 %S= Percent Solid

#	Sample ID	Compound	Reported Concentrations	Recalculated Results Concentrations	Qualifications
	Aroclor 1260-1	= 616.026672 (2000)	=	0.4525	
		45	(60.5)(1000)		
	1260-1	= 0.4525			
	-4	= 0.809447			
	-5	= 0.556244			
	-6	= 0.530591			
		0.5872			

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory
Collection Date: September 19 through September 20, 2011
LDC Report Date: December 28, 2011
Matrix: Soil
Parameters: Metals
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE248

Sample Identification

SL-131-SA7-SS-0.0-0.5	SL-050-SA7-SS-0.0-0.5MSD
SL-137-SA7-SS-0.0-0.5	SL-050-SA7-SS-0.0-0.5DUP
SL-138-SA7-SS-0.0-0.5	
SL-005-SA7-SS-0.0-0.5	
SL-006-SA7-SS-0.0-0.5	
SL-043-SA7-SS-0.0-0.5	
SL-046-SA7-SS-0.0-0.5	
SL-047-SA7-SS-0.0-0.5	
SL-049-SA7-SS-0.0-0.5	
SL-050-SA7-SS-0.0-0.5	
SL-051-SA7-SS-0.0-0.5	
SL-085-SA7-SS-0.0-0.5	
SL-125-SA7-SS-0.0-0.5	
SL-129-SA7-SS-0.0-0.5	
SL-134-SA7-SS-0.0-0.5	
SL-135-SA7-SS-0.0-0.5	
SL-173-SA7-SS-0.0-0.5	
DUP03-SA7-QC-092011	
SL-136-SA7-SS-0.0-0.5	
SL-050-SA7-SS-0.0-0.5MS	

Introduction

This data review covers 22 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B, 6020, and 7471A for Metals. The metals analyzed were Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Mercury, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, and Zirconium.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5% .

III. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No metal contaminants were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Calcium Iron Lead Phosphorus Strontium Tin	5.771 mg/Kg 2.843 mg/Kg 0.032 mg/Kg 1.176 mg/Kg 0.034 mg/Kg 1.506 mg/Kg	All samples in SDG DE248
ICB/CCB	Mercury	0.16 ug/L	All samples in SDG DE248
ICB/CCB	Titanium	0.32 ug/L	SL-131-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
ICB/CCB	Titanium	0.40 ug/L	SL-138-SA7-SS-0.0-0.5 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-125-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
SL-131-SA7-SS-0.0-0.5	Mercury Tin	0.017 mg/Kg 2.7 mg/Kg	0.017U mg/Kg 2.7U mg/Kg
SL-137-SA7-SS-0.0-0.5	Mercury Tin	0.016 mg/Kg 3.2 mg/Kg	0.016U mg/Kg 3.2U mg/Kg
SL-138-SA7-SS-0.0-0.5	Mercury Tin	0.021 mg/Kg 3.5 mg/Kg	0.021U mg/Kg 3.5U mg/Kg
SL-005-SA7-SS-0.0-0.5	Mercury Tin	0.014 mg/Kg 2.9 mg/Kg	0.014U mg/Kg 2.9U mg/Kg
SL-006-SA7-SS-0.0-0.5	Mercury Tin	0.012 mg/Kg 3.0 mg/Kg	0.012U mg/Kg 3.0U mg/Kg
SL-043-SA7-SS-0.0-0.5	Mercury Tin	0.0079 mg/Kg 2.8 mg/Kg	0.0079U mg/Kg 2.8U mg/Kg
SL-046-SA7-SS-0.0-0.5	Mercury Tin	0.0075 mg/Kg 2.8 mg/Kg	0.0075U mg/Kg 2.8U mg/Kg
SL-047-SA7-SS-0.0-0.5	Tin	2.8 mg/Kg	2.8U mg/Kg
SL-049-SA7-SS-0.0-0.5	Mercury Tin	0.008 mg/Kg 2.8 mg/Kg	0.008U mg/Kg 2.8U mg/Kg

Sample	Analyte	Reported Concentration	Modified Final Concentration
SL-050-SA7-SS-0.0-0.5	Mercury Tin	0.011 mg/Kg 2.5 mg/Kg	0.011U mg/Kg 2.5U mg/Kg
SL-051-SA7-SS-0.0-0.5	Mercury Tin	0.013 mg/Kg 3.0 mg/Kg	0.013U mg/Kg 3.0U mg/Kg
SL-085-SA7-SS-0.0-0.5	Mercury Tin	0.012 mg/Kg 2.9 mg/Kg	0.012U mg/Kg 2.9U mg/Kg
SL-125-SA7-SS-0.0-0.5	Mercury Tin	0.011 mg/Kg 1.0 mg/Kg	0.011U mg/Kg 1.0U mg/Kg
SL-129-SA7-SS-0.0-0.5	Mercury Tin	0.017 mg/Kg 1.1 mg/Kg	0.017U mg/Kg 1.1U mg/Kg
SL-134-SA7-SS-0.0-0.5	Mercury Tin	0.014 mg/Kg 2.9 mg/Kg	0.014U mg/Kg 2.9U mg/Kg
SL-135-SA7-SS-0.0-0.5	Mercury Tin	0.016 mg/Kg 2.9 mg/Kg	0.016U mg/Kg 2.9U mg/Kg
SL-173-SA7-SS-0.0-0.5	Tin	3.0 mg/Kg	3.0U mg/Kg
DUP03-SA7-QC-092011	Mercury Tin	0.011 mg/Kg 2.8 mg/Kg	0.011U mg/Kg 2.8U mg/Kg
SL-136-SA7-SS-0.0-0.5	Mercury Tin	0.037 mg/Kg 2.9 mg/Kg	0.037U mg/Kg 2.9U mg/Kg

No field blanks were identified in this SDG.

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VI. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-050-SA7-SS-0.0-0.5MS/MSD (All samples in SDG DE248)	Antimony	60 (75-125)	42 (75-125)	24 (≤ 20)	J (all detects) UJ (all non-detects)	A
	Arsenic	222 (75-125)	-	25 (≤ 20)		
	Barium	-	-	21 (≤ 20)		
	Lead	-	-	21 (≤ 20)		
	Cadmium	-	-	21 (≤ 20)		
SL-050-SA7-SS-0.0-0.5MS/MSD (All samples in SDG DE248)	Beryllium	142 (75-125)	-	-	J (all detects)	A
	Cadmium	166 (75-125)	129 (75-125)	-	J (all detects)	
	Chromium	165 (75-125)	-	-	J (all detects)	
	Cobalt	148 (75-125)	-	-	J (all detects)	
	Copper	178 (75-125)	127 (75-125)	-	J (all detects)	
	Molybdenum	156 (75-125)	128 (75-125)	-	J (all detects)	
	Nickel	190 (75-125)	130 (75-125)	-	J (all detects)	
	Potassium	144 (75-125)	137 (75-125)	-	J (all detects)	
	Selenium	140 (75-125)	-	-	J (all detects)	
	Silver	154 (75-125)	129 (75-125)	-	J (all detects)	
	Thallium	151 (75-125)	-	-	J (all detects)	

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits with the following exceptions:

DUP ID (Associated Samples)	Analyte	RPD (Limits)	Difference (Limits)	Flag	A or P
SL-050-SA7-SS-0.0-0.5DUP (All samples in SDG DE248)	Calcium	22 (≤ 20)	-	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Internal Standards

All internal standard percent recoveries (%R) were within QC limits.

X. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

XI. ICP Serial Dilution

ICP serial dilution analysis was performed by the laboratory. The analysis criteria were met.

XII. Sample Result Verification

All sample result verifications were acceptable.

All metals reported below the RL and above the MDL were qualified as follows:

Sample	Analyte	Flag	A or P
All samples in SDG DE248	All analytes reported below the RL and above the MDL.	J (all detects)	A

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

Samples SL-050-SA7-SS-0.0-0.5 and DUP03-SA7-QC-092011 were identified as field duplicates. No metals were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/Kg)		RPD (Limits)	Flags	A or P
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
Aluminum	14300	16500	14 (≤50)	-	-
Antimony	0.28	0.31	10 (≤50)	-	-
Arsenic	5.4	6.7	21 (≤50)	-	-
Barium	113	129	13 (≤50)	-	-
Beryllium	0.63	0.65	3 (≤50)	-	-
Boron	1.4	1.0	33 (≤50)	-	-
Cadmium	0.35	0.47	29 (≤50)	-	-
Calcium	8680	9990	14 (≤50)	-	-
Chromium	23.7	25.9	9 (≤50)	-	-
Cobalt	8.2	8.5	4 (≤50)	-	-
Copper	13.1	14.8	12 (≤50)	-	-

Analyte	Concentration (mg/Kg)		RPD (Limits)	Flags	A or P
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
Iron	22700	24900	9 (≤50)	-	-
Lead	16.3	19.8	19 (≤50)	-	-
Lithium	25.4	26.1	3 (≤50)	-	-
Magnesium	5040	5480	8 (≤50)	-	-
Manganese	286	306	7 (≤50)	-	-
Mercury	0.011	0.011	0 (≤50)	-	-
Molybdenum	0.47	0.50	6 (≤50)	-	-
Nickel	17.4	20.0	14 (≤50)	-	-
Phosphorus	392	390	1 (≤50)	-	-
Potassium	3130	3300	5 (≤50)	-	-
Selenium	0.13	0.15	14 (≤50)	-	-
Silver	0.062	0.067	8 (≤50)	-	-
Sodium	103	97.4	6 (≤50)	-	-
Strontium	23.7	28.6	19 (≤50)	-	-
Thallium	0.35	0.36	3 (≤50)	-	-
Tin	2.5	2.8	11 (≤50)	-	-
Titanium	1200	1190	1 (≤50)	-	-
Vanadium	45.8	48.6	6 (≤50)	-	-
Zinc	132	127	4 (≤50)	-	-
Zirconium	3.4	4.0	16 (≤50)	-	-

**Santa Susana Field Laboratory
Metals - Data Qualification Summary - SDG DE248**

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE248	SL-131-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-125-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	Antimony Arsenic	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q,E)
DE248	SL-131-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-125-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	Barium Lead Cadmium	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (RPD) (E)
DE248	SL-131-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-125-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	Beryllium Cadmium Chromium Cobalt Copper Molybdenum Nickel Potassium Selenium Silver Thallium	J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE248	SL-131-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-125-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	Calcium	J (all detects) UJ (all non-detects)	A	Duplicate sample analysis (RPD) (E)
DE248	SL-131-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-125-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	All analytes reported below the RL and above the MDL.	J (all detects)	A	Sample result verification (Z)

**Santa Susana Field Laboratory
Metals - Laboratory Blank Data Qualification Summary - SDG DE248**

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE248	SL-131-SA7-SS-0.0-0.5	Mercury Tin	0.017U mg/Kg 2.7U mg/Kg	A	B
DE248	SL-137-SA7-SS-0.0-0.5	Mercury Tin	0.016U mg/Kg 3.2U mg/Kg	A	B
DE248	SL-138-SA7-SS-0.0-0.5	Mercury Tin	0.021U mg/Kg 3.5U mg/Kg	A	B
DE248	SL-005-SA7-SS-0.0-0.5	Mercury Tin	0.014U mg/Kg 2.9U mg/Kg	A	B

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE248	SL-006-SA7-SS-0.0-0.5	Mercury Tin	0.012U mg/Kg 3.0U mg/Kg	A	B
DE248	SL-043-SA7-SS-0.0-0.5	Mercury Tin	0.0079U mg/Kg 2.8U mg/Kg	A	B
DE248	SL-046-SA7-SS-0.0-0.5	Mercury Tin	0.0075U mg/Kg 2.8U mg/Kg	A	B
DE248	SL-047-SA7-SS-0.0-0.5	Tin	2.8U mg/Kg	A	B
DE248	SL-049-SA7-SS-0.0-0.5	Mercury Tin	0.008U mg/Kg 2.8U mg/Kg	A	B
DE248	SL-050-SA7-SS-0.0-0.5	Mercury Tin	0.011U mg/Kg 2.5U mg/Kg	A	B
DE248	SL-051-SA7-SS-0.0-0.5	Mercury Tin	0.013U mg/Kg 3.0U mg/Kg	A	B
DE248	SL-085-SA7-SS-0.0-0.5	Mercury Tin	0.012U mg/Kg 2.9U mg/Kg	A	B
DE248	SL-125-SA7-SS-0.0-0.5	Mercury Tin	0.011U mg/Kg 1.0U mg/Kg	A	B
DE248	SL-129-SA7-SS-0.0-0.5	Mercury Tin	0.017U mg/Kg 1.1U mg/Kg	A	B
DE248	SL-134-SA7-SS-0.0-0.5	Mercury Tin	0.014U mg/Kg 2.9U mg/Kg	A	B
DE248	SL-135-SA7-SS-0.0-0.5	Mercury Tin	0.016U mg/Kg 2.9U mg/Kg	A	B
DE248	SL-173-SA7-SS-0.0-0.5	Tin	3.0U mg/Kg	A	B
DE248	DUP03-SA7-QC-092011	Mercury Tin	0.011U mg/Kg 2.8U mg/Kg	A	B
DE248	SL-136-SA7-SS-0.0-0.5	Mercury Tin	0.037U mg/Kg 2.9U mg/Kg	A	B

**Santa Susana Field Laboratory
Metals - Field Blank Data Qualification Summary - SDG DE248**

No Sample Data Qualified in this SDG

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>9/19-20/11</u>
II.	ICP/MS Tune	A	
III.	Calibration	A	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	SW	
VI.	Matrix Spike Analysis	SW	MS/D
VII.	Duplicate Sample Analysis	SW	DUP
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	A	
X.	Furnace Atomic Absorption QC	N	Not utilized
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	A	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	SW	(10, 18)
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: soil

1	SL-131-SA7-SS-0.0-0.5	11	SL-051-SA7-SS-0.0-0.5	21	SL-050-SA7-SS-0.0-0.5MSD	31	
2	SL-137-SA7-SS-0.0-0.5	12	SL-085-SA7-SS-0.0-0.5	22	SL-050-SA7-SS-0.0-0.5DUP	32	
3	SL-138-SA7-SS-0.0-0.5	13	SL-125-SA7-SS-0.0-0.5	23		33	
4	SL-005-SA7-SS-0.0-0.5	14	SL-129-SA7-SS-0.0-0.5	24		34	
5	SL-006-SA7-SS-0.0-0.5	15	SL-134-SA7-SS-0.0-0.5	25		35	
6	SL-043-SA7-SS-0.0-0.5	16	SL-135-SA7-SS-0.0-0.5	26		36	
7	SL-046-SA7-SS-0.0-0.5	17	SL-173-SA7-SS-0.0-0.5	27		37	
8	SL-047-SA7-SS-0.0-0.5	18	DUP03-SA7-QC-092011	28		38	
9	SL-049-SA7-SS-0.0-0.5	19	SL-136-SA7-SS-0.0-0.5	29		39	
10	SL-050-SA7-SS-0.0-0.5	20	SL-050-SA7-SS-0.0-0.5MS	30		40	

Notes: _____

Method:Metals (EPA SW 846 Method 6010B/7000/6020)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	/			
Were %RSD of isotopes in the tuning solution $\leq 5\%$?	/			
III. Calibration				
Were all instruments calibrated daily, each set-up time?	/			
Were the proper number of standards used?	/			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	/			
Were all initial calibration correlation coefficients > 0.995 ?	/			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	/			
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	/			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	/			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.		/		
Were the MS/MSD or duplicate relative percent differences (RPD) $\leq 20\%$ for waters and $\leq 35\%$ for soil samples? A control limit of $\pm RL(\pm 2X RL$ for soil) was used for samples that were $\leq 5X$ the RL, including when only one of the duplicate sample values were $< 5X$ the RL.		/		
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	/			

LDC #: 2685934

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: ER
 2nd Reviewer: W

Validation Area	Yes	No	NA	Findings/Comments
VIII. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?			/	
Do all applicable analyses have duplicate injections? (Level IV only)			/	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			/	
Were analytical spike recoveries within the 85-115% QC limits?			/	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL (ICP/MS)?	/			
Were all percent differences (%Ds) < 10%?	/			
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			/	
X. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?	/			
If the %Rs were outside the criteria, was a reanalysis performed?	/			
XI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		/		
Were the performance evaluation (PE) samples within the acceptance limits?			/	
XII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	/			
Target analytes were detected in the field duplicates.	/			
XV. Field blanks				
Field blanks were identified in this SDG.		/		
Target analytes were detected in the field blanks.			/	

Analyte	Maximum PB ^a (mg/Kg)	Maximum ICB/CCB ^a (ug/L)	Action Limit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
Ca	5.771		28.86																				
Fe	2.843		14.22																				
Pb	0.032		0.16																				
Hg		0.16	0.134	0.017	0.016	0.021	0.014	0.012	0.0079	0.0075	0.008	0.011	0.013	0.012	0.011	0.011	0.017	0.014	0.016		0.011	0.037	
P	1.176		5.88																				
Sr	0.034		0.17																				
Sn	1.506		7.53	2.7	3.2	3.5	2.9	3.0	2.8	2.8	2.8	2.8	2.5	3.0	2.9	1.0	1.1	2.9	2.9	3.0	2.8	2.9	

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 1, 2, 10

Analyte	Maximum PB ^a (mg/Kg)	Maximum ICB/CCB ^a (ug/L)	Action Limit	No Qualifiers
Ti		0.32	0.16	

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 3-9, 11-17

Analyte	Maximum PB ^a (mg/Kg)	Maximum ICB/CCB ^a (ug/L)	Action Limit	No Qualifiers
Ti		0.40	0.2	

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note: a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 26859051

VALIDATION FINDINGS WORKSHEET

Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: CR
2nd Reviewer: W

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A

Was a matrix spike analyzed for each matrix in this SDG?

Y N N/A

Were matrix spike percent recoveries (%R) within the control limits of 75-125% If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

Y N N/A

Were all duplicate sample relative differences (RPD) ≤ 20% for water samples and ≤ 35% for soil samples?

LEVEL IV ONLY:

Y N N/A

Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	MS/MSD ID	Matrix	Analyte	MS %Recovery	MSD %Recovery	RPD (Limits)	Associated Samples	Qualifications
	20/21	S	Sb	60	42	24	All	JUSTIA (Q, E)
			As	222		25		↓ (E)
			Ba			21		↓ (E)
			Be	142				JUSTIA (Q)
			Cd	166	129	21		JUSTIA (Q)
			Cr	165				JUSTIA (Q)
			Co	148				
			Cu	178	127			
			Mo	156	128			
			Mn	190	130			
			K	144	137			
			Se	140				
			As	151	129			
			Pb	151				
			Cd			21		JUSTIA (E)
						21		↓

Comments: _____

LDC#: 26859R4

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 2
Reviewer: OC
2nd Reviewer: W

METHOD: Metals (EPA Method 6010B/7000)

Analyte	Concentration (mg/Kg)		RPD (≤50)	
	10	18		
Aluminum	14300	16500	14	
Antimony	0.28	0.31	10	
Arsenic	5.4	6.7	21	
Barium	113	129	13	
Beryllium	0.63	0.65	3	
Boron	1.4	1.0	33	
Cadmium	0.35	0.47	29	
Calcium	8680	9990	14	
Chromium	23.7	25.9	9	
Cobalt	8.2	8.5	4	
Copper	13.1	14.8	12	
Iron	22700	24900	9	
Lead	16.3	19.8	19	
Lithium	25.4	26.1	3	
Magnesium	5040	5480	8	
Manganese	286	306	7	
Mercury	0.011	0.011	0	
Molybdenum	0.47	0.50	6	
Nickel	17.4	20.0	14	

LDC#: 26859R4

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 22 of 22
Reviewer: OR
2nd Reviewer: ✓

METHOD: Metals (EPA Method 6010B/7000)

Analyte	Concentration (mg/Kg)		RPD (≤ 50)	
	10	18		
Phosphorus	392	390	1	
Potassium	3130	3300	5	
Selenium	0.13	0.15	14	
Silver	0.062	0.067	8	
Sodium	103	97.4	6	
Strontium	23.7	28.6	19	
Thallium	0.35	0.36	3	
Tin	2.5	2.8	11	
Titanium	1200	1190	1	
Vanadium	45.8	48.6	6	
Zinc	132	127	4	
Zirconium	3.4	4.0	16	

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VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$\%R = \frac{\text{Found}}{\text{True}} \times 100$ Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
 True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated		Reported		Acceptable (Y/N)
					%R	%R	%R	%R	
ICV	ICP (Initial calibration)	P	603.6	600	100.6	100.6	100.6	100.6	Y
↓	ICPMS (Initial calibration)	Co	487.20	500	97.4	97.4	97.4	97.4	Y
↓	CVAA (Initial calibration)	Hg	2.56	2.5	102.4	102.4	102.4	102.4	Y
CCV	ICP (Continuing calibration)	Na	2409.94	2500	96.7	96.7	96.7	96.7	Y
↓	ICPMS (Continuing calibration)	V	253.90	250	101.6	101.6	101.6	101.6	Y
↓	CVAA (Continuing calibration)	Hg	1	1	100	100	100	100	Y
	GFAA (Initial calibration)								
	GFAA (Continuing calibration)								

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$$\%R = \frac{\text{Found} \times 100}{\text{True}}$$

Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$RPD = \frac{|S-D|}{(S+D)/2} \times 100$$

Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$$\%D = \frac{|I-SDR|}{I} \times 100$$

Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated		Reported		Acceptable (Y/N)
					%R / RPD / %D	%R / RPD / %D			
IC5AB	ICP interference check	Co	19.5	20	97.5	97.5	97.5	97.5	Y
CS	Laboratory control sample	Pb	710.4	812	87	87	87	87	Y
20	Matrix spike	Li	(SSR-SR) 100.7254	99.938	101	101	101	101	Y
22	Duplicate	B	1.3989	0.01566	38	38	38	38	Y
10	ICP serial dilution	Sr	234.39	240.85	3	3	3	3	Y

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y N N/A Have results been reported and calculated correctly?
- Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
- Y N N/A Are all detection limits below the CRDL?

Detected analyte results for Fe were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In. Vol.)}$

Recalculation:

- RD = Raw data concentration
- FV = Final volume (ml)
- In. Vol. = Initial volume (ml) or weight (G)
- Dil = Dilution factor

$$\frac{100\text{mL} (203.51027\text{mg/L})}{1.04\text{g} (0.993)} = 19706\text{mg/Kg}$$

#	Sample ID	Analyte	Reported Concentration (mg/Kg)	Calculated Concentration (mg/Kg)	Acceptable (Y/N)
	1	Al	11000	11000	Y
		Sb	0.11	0.11	
		As	3.5	3.5	
		Ba	73.8	73.8	
		Be	0.39	0.39	
		Cd	0.098	0.098	
		Ca	2620	2620	
		Cr	14.5	14.5	
		Co	5.1	5.1	
		Cu	6.8	6.8	
		Fe	19700	19700	
		Pb	6.9	6.9	
		Li	24.8	24.8	
		Mg	4890	4890	
		Mn	260	260	
		Hg	0.017	0.017	
		Mo	0.31	0.31	
		Ni	9.8	9.8	
		P	419	419	
		K	3220	3220	
		Se	0.11	0.11	
		Ag	0.063	0.063	
		Na	62.3	62.3	
		Sr	9.8	9.8	

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y N N/A Have results been reported and calculated correctly?
- Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
- Y N N/A Are all detection limits below the CRDL?

Detected analyte results for Na were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In. Vol.)}$

Recalculation:

- RD = Raw data concentration
- FV = Final volume (ml)
- In. Vol. = Initial volume (ml) or weight (G)
- Dil = Dilution factor

$$\frac{100mL(0.82553mg/L)}{0.994(1.04g)} = 79.91mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/Kg)	Calculated Concentration (mg/Kg)	Acceptable (Y/N)
	1	Tl	0.25	0.25	Y
		Sn	2.7	2.7	
		Ti	1200	1200	
		V	29.2	29.2	
		Zn	55.0	55.0	
		Zr	2.7	2.7	
	2	Al	11600	11600	
		Sb	0.076	0.076	
		As	3.7	3.7	
		Ba	80.7	80.7	
		Be	0.41	0.41	
		Cd	0.56	0.56	
		Ca	2900	2900	
		Cr	20.2	20.2	
		Co	4.8	4.8	
		Cu	10.9	10.9	
		Fe	20000	20000	
		Pb	15.6	15.6	
		Li	25.1	25.1	
		Mg	4340	4340	
		Mn	283	283	
		Hg	0.016	0.016	
		Mo	0.32	0.32	
		Ni	9.4	9.4	

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y N N/A Have results been reported and calculated correctly?
- Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
- Y N N/A Are all detection limits below the CRDL?

Detected analyte results for _____ were recalculated and verified using the following equation:

$$\text{Concentration} = \frac{(\text{RD})(\text{FV})(\text{Dil})}{(\text{In. Vol.})}$$

Recalculation:

- RD = Raw data concentration
- FV = Final volume (ml)
- In. Vol. = Initial volume (ml) or weight (G)
- Dil = Dilution factor

See Previous page

#	Sample ID	Analyte	Reported Concentration (mg/Kg)	Calculated Concentration (mg/Kg)	Acceptable (Y/N)
	2	P	521	521	<div style="font-size: 2em; font-family: cursive;">Y</div> <div style="border-left: 1px solid black; height: 100%; width: 1px; margin: 0 auto;"></div> <div style="font-size: 2em; font-family: cursive;">Y</div>
		K	3330	3330	
		Se	0.10	0.10	
		Ag	0.044	0.044	
		Na	79.9	79.9	
		Sr	13.1	13.1	
		Tl	0.24	0.24	
		Sn	3.2	3.2	
		Ti	1140	1140	
		V	28.4	28.4	
		Zn	129	129	
		Zr	2.6	2.6	

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory
Collection Date: September 19 through September 20, 2011
LDC Report Date: January 3, 2012
Matrix: Soil
Parameters: Herbicides
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE248

Sample Identification

SL-131-SA7-SS-0.0-0.5
SL-137-SA7-SS-0.0-0.5
SL-138-SA7-SS-0.0-0.5
SL-005-SA7-SS-0.0-0.5
SL-006-SA7-SS-0.0-0.5
SL-043-SA7-SS-0.0-0.5
SL-046-SA7-SS-0.0-0.5
SL-047-SA7-SS-0.0-0.5
SL-049-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5
SL-051-SA7-SS-0.0-0.5
SL-085-SA7-SS-0.0-0.5
SL-129-SA7-SS-0.0-0.5
SL-134-SA7-SS-0.0-0.5
SL-135-SA7-SS-0.0-0.5
SL-173-SA7-SS-0.0-0.5
DUP03-SA7-QC-092011
SL-136-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5MS
SL-050-SA7-SS-0.0-0.5MSD

Introduction

This data review covers 20 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8151A for Herbicides.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at the required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No herbicide contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicate

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-050-SA7-SS-0.0-0.5MS/MSD (SL-050-SA7-SS-0.0-0.5)	2,4,5-T	-	-	44 (≤35)	J (all detects)	A
SL-050-SA7-SS-0.0-0.5MS/MSD (SL-050-SA7-SS-0.0-0.5)	2,4-DB	0 (10-201)	-	85 (≤50)	J (all detects) R (all non-detects)	A

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
LCS 49267	Dinoseb	7 (10-36)	All samples in SDG DE248	J (all detects) R (all non-detects)	P

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

The sample results for detected compounds from the two columns were within 40% relative percent difference (RPD) with the following exceptions:

Sample	Compound	RPD	Flag	A or P
SL-138-SA7-SS-0.0-0.5	2,4,5-TP	73.93	J (all detects)	A
SL-005-SA7-SS-0.0-0.5	2,4,5-T	182	J (all detects)	A
SL-043-SA7-SS-0.0-0.5	2,4,5-T 2,4-DB	72.08 44.95	J (all detects) J (all detects)	A
SL-046-SA7-SS-0.0-0.5	2,4-DB	40.54	J (all detects)	A
SL-047-SA7-SS-0.0-0.5	2,4-DB	70.37	J (all detects)	A
SL-050-SA7-SS-0.0-0.5	2,4-DB MCPA	81.50 40.84	J (all detects) J (all detects)	A

Sample	Compound	RPD	Flag	A or P
SL-173-SA7-SS-0.0-0.5	2,4-DB 2,4,5-T	59.63 82.14	J (all detects) J (all detects)	A
DUP03-SA7-QC-092011	2,4-D 2,4,5-T	40.83 68.97	J (all detects) J (all detects)	A
SL-136-SA7-SS-0.0-0.5	2,4-DB	79.80	J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE248	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples SL-050-SA7-SS-0.0-0.5 and DUP03-SA7-QC-092011 were identified as field duplicates. No herbicides were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
2,4-DB	2.2	1.7U	200 (≤50)	J (all detects) UJ (all non-detects)	A
MCPA	150	250U	200 (≤50)	J (all detects) UJ (all non-detects)	A
2,4,5-T	0.20	0.11	58 (≤50)	J (all detects)	A
2,4-D	1.2U	1.3	200 (≤50)	J (all detects) UJ (all non-detects)	A

**Santa Susana Field Laboratory
Herbicides - Data Qualification Summary - SDG DE248**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE248	SL-050-SA7-SS-0.0-0.5	2,4,5-T	J (all detects)	A	Matrix spike/Matrix spike duplicate (RPD) (Q)
DE248	SL-050-SA7-SS-0.0-0.5	2,4-DB	J (all detects) R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q)
DE248	SL-131-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	Dinoseb	J (all detects) R (all non-detects)	P	Laboratory control samples (%R) (L)
DE248	SL-138-SA7-SS-0.0-0.5	2,4,5-TP	J (all detects)	A	Compound quantitation and RLs (RPD) (*IX)
DE248	SL-005-SA7-SS-0.0-0.5	2,4,5-T	J (all detects)	A	Compound quantitation and RLs (RPD) (*IX)
DE248	SL-043-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5	2,4,5-T 2,4-DB	J (all detects) J (all detects)	A	Compound quantitation and RLs (RPD) (*IX)
DE248	SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-136-SA7-SS-0.0-0.5	2,4-DB	J (all detects)	A	Compound quantitation and RLs (RPD) (*IX)
DE248	SL-050-SA7-SS-0.0-0.5	2,4-DB MCPA	J (all detects) J (all detects)	A	Compound quantitation and RLs (RPD) (*IX)
DE248	DUP03-SA7-QC-092011	2,4-D 2,4,5-T	J (all detects) J (all detects)	A	Compound quantitation and RLs (RPD) (*IX)

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE248	SL-131-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)
DE248	SL-050-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011	2,4-DB MCPA 2,4-D	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)
DE248	SL-050-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011	2,4,5-T	J (all detects)	A	Field duplicates (RPD) (FD)

**Santa Susana Field Laboratory
Herbicides - Laboratory Blank Data Qualification Summary - SDG DE248**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory
Herbicides - Field Blank Data Qualification Summary - SDG DE248**

No Sample Data Qualified in this SDG

LDC #: 26859R5

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE248

Level IV

Laboratory: Lancaster Laboratories

Date: 9/30/11

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC Herbicides (EPA SW 846 Method 8151A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/19 - 9/20/11
II.	Initial calibration	A	% PSD ≤ 20
III.	Calibration verification/ICV	A	ICV/ICV ≤ 20
IV.	Blanks	A	
V.	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	SW	
VII.	Laboratory control samples	SW	LC5
VIII.	Target compound identification	A	
IX.	Compound quantitation (RI)/LOQ/LODs	SW	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	SW	D = 10 + 17
XIII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

5012

1	SL-131-SA7-SS-0.0-0.5	11	SL-051-SA7-SS-0.0-0.5	21	PBLK49267	31	
2	SL-137-SA7-SS-0.0-0.5*	12	SL-085-SA7-SS-0.0-0.5	22		32	
3	SL-138-SA7-SS-0.0-0.5	13	SL-129-SA7-SS-0.0-0.5	23		33	
4	SL-005-SA7-SS-0.0-0.5	14	SL-134-SA7-SS-0.0-0.5	24		34	
5	SL-006-SA7-SS-0.0-0.5	15	SL-135-SA7-SS-0.0-0.5	25		35	
6	SL-043-SA7-SS-0.0-0.5	16	SL-173-SA7-SS-0.0-0.5	26		36	
7	SL-046-SA7-SS-0.0-0.5	17	DUP03-SA7-QC-092011	27		37	
8	SL-047-SA7-SS-0.0-0.5	18	SL-136-SA7-SS-0.0-0.5	28		38	
9	SL-049-SA7-SS-0.0-0.5	19	SL-050-SA7-SS-0.0-0.5MS	29		39	
10	SL-050-SA7-SS-0.0-0.5	20	SL-050-SA7-SS-0.0-0.5MSD	30		40	

Notes: _____

LDC #: 26859 R3
 SDG #: per owner

VALIDATION FINDINGS CHECKLIST

Page: / of 2
 Reviewer: FR
 2nd Reviewer: C

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cooler temperature criteria was met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) < 20%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a curve fit used for evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the RT windows properly established?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
III. Continuing calibration				
Was a continuing calibration analyzed daily?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) < 20%.0 or percent recoveries 80-120%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all the retention times within the acceptance windows?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IV. Blanks				
Was a method blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a method blank analyzed for each matrix and concentration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
V. Surrogate/spikes				
Were all surrogate %R within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a MS/MSD analyzed every 20 samples of each matrix?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was an LCS analyzed per extraction batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
VIII. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the performance evaluation (PE) samples within the acceptance limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

LDC #: 26859RS
 SDG #: per count

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: FJ
 2nd Reviewer: [Signature]

Validation Area	Yes	No	NA	Findings/Comments
X: Target compound identification				
Were the retention times of reported detects within the RT windows?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XI: Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XII: System performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIII: Overall assessment of data				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIV: Field duplicates				
Field duplicate pairs were identified in this SDG.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field duplicates.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XV: Field blanks				
Field blanks were identified in this SDG.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field blanks.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

LDC #: 268985
 SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Page: 1 of 1
 Reviewer: FT
 2nd Reviewer: LA

METHOD: GC HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
 Level IV/D Only
 Y/N N/A Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?
 Y/N N/A Did the reported results for detected target compounds agree within 10.0% of the recalculated results?

#	Compound Name	% RPD	Finding	Associated Samples	Qualifications
	2,4,5-TP	But 2	73.93	3	↓/A det *IX
	UV 2,4,5-T		182	4	↓
	2,4,5-T		73.08	6	↓
	2,4-DB		44.95		↓
	2,4-DB		40.51	7	↓
	↓		70.37	8	↓
	2,4,5-T			9	
	2,4-DB		81.50	10	↓
	MCPA		40.84		↓

Comments: See sample calculation verification worksheet for recalculations

LDC #: 268985
 SDG #: fee cover

VALIDATION FINDINGS WORKSHEET Field Duplicates

Page: 1 of 1
 Reviewer: [Signature]
 2nd reviewer: [Signature]

METHOD: GC HPLC

Were field duplicate pairs identified in this SDG? Y N
 Were target compounds detected in the field duplicate pairs? Y N

(f9)

Compound	Concentration (ug/kg)		%RPD Limit <u>50</u>	Qualification Parent only / All Samples
	10	17		
2,4-DB	2.2	1.74	200	J/US/A ↓
MCPA	1.50	2504774	200	J/A det
2,4,5-T	0.20	0.11	58	J/US/A
2,4-D	1.24	1.3	200	

Compound	Concentration ()		%RPD Limit	Qualification Parent only / All Samples

LDC #: 26809ES
 SDG #: pk wach

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
 Reviewer: FJ
 2nd Reviewer: A

METHOD: GC HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

- CF = A/C
- average CF = sum of the CF/number of standards
- %RSD = $100 \cdot (S/X)$
- A = Area of compound,
- C = Concentration of compound,
- S = Standard deviation of the CF
- X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF (std)	200.6 / 100.7 (std)	CF (std)	Average CF (Initial)	%RSD	Average CF (Initial)	%RSD	
1	1CAL	9/19/11	2, 4-DB Dinoseb	6.99×10^{-2}	2.00×10^{-2}	6.99×10^{-2}	6.97×10^{-2}	6.6	6.97×10^{-2}	6.6	6.6
				3.61×10^{-1}		3.61×10^{-1}	4.11×10^{-1}	17.8	4.11×10^{-1}	17.8	17.8
2	1CAL	9/19/11	2B-35	8.52×10^{-2}	8.52×10^{-2}	8.52×10^{-2}	8.60×10^{-2}	13.2	8.60×10^{-2}	13.2	13.2
				3.79×10^{-1}		3.79×10^{-1}	4.32×10^{-1}	19.5	4.32×10^{-1}	19.5	19.5
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 76 85925
 SDG #: see Comm

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 2
 Reviewer: FE
 2nd Reviewer: C

METHOD: GC HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 * (\text{ave. CF} - \text{CF}) / \text{ave. CF}$ Where: ave. CF = Initial calibration average CF
 CF = A/C
 CF = continuing calibration CF
 A = Area of compound
 C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/ CCV Conc.	Reported		Recalculated	
					CF/Conc. CCV	%D	CF/Conc. CCV	%D
1	ceV 22:22	9/29/11	34-DB	200.60	212.15	5.8	212.15	5.8
			Dinoab	100.70	90.60	10.0	90.60	10.0
			↓	↓	211.05	5.2	211.05	5.2
2	ceV 3:24	9/30/11	↓	↓	92.79	7.9	92.79	7.9
			↓	↓	212.31	5.8	212.31	5.8
			↓	↓	92.10	8.5	92.10	8.5
3	ceV 8:52	9/30/11	↓	213.77	6.6	213.77	6.6	
			↓	↓	93.43	7.2	93.43	7.2
			↓	↓	208.10	3.7	208.10	3.7
4			↓	87.25	13.4	87.25	13.4	
			↓	↓	206.94	3.2	206.94	3.2
			↓	↓	91.31	9.3	91.31	9.3

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 2685925
 SDG #: see cover
 METHOD: GC HPLC

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
 Reviewer: FT
 2nd reviewer: [Signature]

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS * 100$
 Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: # /

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
2,4-DCAA	DBZB-35	6.667	8.447753	127	127	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

METHOD: GC HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SSC-SC)/SA$ Where: SSC = Spiked sample concentration SC = Concentration
 RPD = $1 LCS - LCSD \div 2(LCS + LCSD)$ SA = Spike added
 LCS = Laboratory control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LC >

Compound	Spike Added (<u>mg/kg</u>)		Spiked Sample Concentration (<u>ug/l</u>)		LCS		LCSD		Percent Recovery		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)																
Diesel (8015)																
Benzene (8021B)																
Methane (RSK-175)																
2,4-D (8151)	8.33	NA	7.9	NA	95	95										
Dinoseb (8151)	14.18	↓	1.04	↓	7	7										
Naphthalene (8310)																
Anthracene (8310)																
HMX (8330)																
2,4,6-Trinitrotoluene (8330)																

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory
Collection Date: September 20, 2011
LDC Report Date: January 5, 2012
Matrix: Soil
Parameters: Wet Chemistry
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE248

Sample Identification

SL-131-SA7-SS-0.0-0.5	SL-050-SA7-SS-0.0-0.5DUP
SL-137-SA7-SS-0.0-0.5	SL-051-SA7-SS-0.0-0.5MS
SL-138-SA7-SS-0.0-0.5	SL-051-SA7-SS-0.0-0.5DUP
SL-005-SA7-SS-0.0-0.5	SL-129-SA7-SS-0.0-0.5MS
SL-006-SA7-SS-0.0-0.5	SL-129-SA7-SS-0.0-0.5DUP
SL-043-SA7-SS-0.0-0.5	
SL-046-SA7-SS-0.0-0.5	
SL-047-SA7-SS-0.0-0.5	
SL-049-SA7-SS-0.0-0.5	
SL-050-SA7-SS-0.0-0.5	
SL-051-SA7-SS-0.0-0.5	
SL-085-SA7-SS-0.0-0.5	
SL-125-SA7-SS-0.0-0.5	
SL-129-SA7-SS-0.0-0.5	
SL-134-SA7-SS-0.0-0.5	
SL-135-SA7-SS-0.0-0.5	
SL-173-SA7-SS-0.0-0.5	
DUP03-SA7-QC-092011	
SL-136-SA7-SS-0.0-0.5	
SL-050-SA7-SS-0.0-0.5MS	

Introduction

This data review covers 25 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 9012B for Cyanide, EPA Method 300.0 for Nitrate and Fluoride, EPA SW 846 Method 7199 for Hexavalent Chromium, and EPA Method 314.0 for Perchlorate.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

No field blanks were identified in this SDG.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	%R (Limits)	Flag	A or P
SL-051-SA7-SS-0.0-0.5MS (SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-125-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5)	Fluoride	79 (80-120)	J (all detects) UJ (all non-detects)	A

VI. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

All sample result verifications were acceptable

All analytes reported below the RL were qualified as follows:

Sample	Analyte	Flag	A or P
All samples in SDG DE248	All analytes reported below the RL and above the MDL.	J (all detects)	A

IX. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

X. Field Duplicates

Samples SL-050-SA7-SS-0.0-0.5 and DUP03-SA7-QC-092011 were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/Kg)		RPD (Limits)	Flags	A or P
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
Fluoride	3.2	2.8	13 (≤ 50)	-	-
Nitrate	1.3	1.4	7 (≤ 50)	-	-
Hexavalent chromium	0.37	0.32	14 (≤ 50)	-	-

**Santa Susana Field Laboratory
Wet Chemistry - Data Qualification Summary - SDG DE248**

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE248	SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-125-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	Fluoride	J (all detects) UJ (all non-detects)	A	Matrix spike analysis (%R) (Q)
DE248	SL-131-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-125-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	All analytes reported below the RL and above the MDL.	J (all detects)	A	Sample result verification (Z)

**Santa Susana Field Laboratory
Wet Chemistry – Laboratory Blank Data Qualification Summary - SDG DE248**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory
Wet Chemistry - Field Blank Data Qualification Summary - SDG DE248**

No Sample Data Qualified in this SDG

LDC #: 26859R6

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE248

Level IV

Laboratory: Lancaster Laboratories

Date: 1/5/12

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: (Analyte) Cyanide (EPA SW846 Method 9012B), Nitrate-~~N~~, Fluoride (EPA Method 300.0), Hexavalent Chromium (EPA SW846 Method 7199), Perchlorate (EPA Method 314.0)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

Validation Area			Comments
I.	Technical holding times	A	Sampling dates: 9/20/11
Ila.	Initial calibration	A	
Ilb.	Calibration verification	A	
III.	Blanks	A	
IV	Matrix Spike/Matrix Spike Duplicates	SW	
V	Duplicates	A	
VI.	Laboratory control samples	A	Les
VII.	Sample result verification	A	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	SW	(10, 18)
X	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples: 40

1	SL-131-SA7-SS-0.0-0.5	11	SL-051-SA7-SS-0.0-0.5	21	SL-050-SA7-SS-0.0-0.5DUP	31	M/S
2	SL-137-SA7-SS-0.0-0.5	12	SL-085-SA7-SS-0.0-0.5	22	#11 MS	32	
3	SL-138-SA7-SS-0.0-0.5	13	SL-125-SA7-SS-0.0-0.5	23	↓ Dup	33	
4	SL-005-SA7-SS-0.0-0.5	14	SL-129-SA7-SS-0.0-0.5	24	#14 MS	34	
5	SL-006-SA7-SS-0.0-0.5	15	SL-134-SA7-SS-0.0-0.5	25	↓ Dup	35	
6	SL-043-SA7-SS-0.0-0.5	16	SL-135-SA7-SS-0.0-0.5	26		36	
7	SL-046-SA7-SS-0.0-0.5	17	SL-173-SA7-SS-0.0-0.5	27		37	
8	SL-047-SA7-SS-0.0-0.5	18 ✓	DUP03-SA7-QC-092011	28		38	
9	SL-049-SA7-SS-0.0-0.5	19	SL-136-SA7-SS-0.0-0.5	29		39	
10 ✓	SL-050-SA7-SS-0.0-0.5	20	SL-050-SA7-SS-0.0-0.5MS	30		40	

Notes: _____

Method: Inorganics (EPA Method See cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients > 0.995?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.		✓		
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL (≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were < 5X the CRDL.	✓			
V. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	✓			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

Validation Area	Yes	No	NA	Findings/Comments
VII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
Were detection limits < RL?	/			
VIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
IX. Field duplicates				
Field duplicate pairs were identified in this SDG.	/	/		
Target analytes were detected in the field duplicates.	/			
X. Field blanks				
Field blanks were identified in this SDG.		/	/	
Target analytes were detected in the field blanks.			/	

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Inorganics, Method See CoverY N NA Were field duplicate pairs identified in this SDG?Y N NA Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (mg/Kg)		RPD (≤50)	
	10	18		
Fluoride	3.2	2.8	13	
Nitrate	1.3	1.4	7	
Cr (VI)	0.37	0.32	14	

V:\FIELD DUPLICATES\FD_inorganic\26859R6.wpd

LDC #: 2685126

Validatin Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

Method: Inorganics, Method See lower

The correlation coefficient (r) for the calibration of ClO4 was recalculated. Calibration date: 8/4/11

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$\%R = \frac{\text{Found} \times 100}{\text{True}}$ Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution
True = concentration of each analyte in the ICV or CCV source

Type of analysis	Analyte	Standard	Conc. (ug/L)	Area	Recalculated		Reported		Acceptable (Y/N)
					r or r ²	r or r ²			
Initial calibration	ClO4	s1	2	0.003	0.9999	0.9999			Y
		s2	4	0.006					
		s3	10	0.023					
		s4	25	0.061					
		s5	100	0.263					
Calibration verification	NO3	1.5	1.59		1.06	1.06		Y	
Calibration verification	Cl	0.15	0.149		0.99	0.99		Y	
Calibration verification	ClO4	100	110.7		1.11	1.11		Y	

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26659 R6

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: Inorganics, Method see run

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100 \quad \text{Where, Found} = \text{concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found} = \text{SSR (spiked sample result) - SR (sample result).}$$

$$\text{True} = \text{concentration of each analyte in the source.}$$

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$RPD = \frac{|S-D|}{(S+D)/2} \times 100 \quad \text{Where, S} = \text{Original sample concentration}$$

$$D = \text{Duplicate sample concentration}$$

Sample ID	Type of Analysis	Element	Found / S (units)	True / D (units)	Recalculated		Acceptable (Y/N)
					%R / RPD	Reported %R / RPD	
LCS	Laboratory control sample	CrO4	536	500	107	NR	Y
20	Matrix spike sample	CN	5.11 (SSR-SR)	5.26	97	97	Y
21	Duplicate sample	F	3.87	3.22	18	18	Y

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

METHOD: Inorganics, Method See over

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- N N/A Have results been reported and calculated correctly?
- N N/A Are results within the calibrated range of the instruments?
- N N/A Are all detection limits below the CRQL?

Compound (analyte) results for 10, 19 reported with a positive detect were recalculated and verified using the following equation:

Concentration = Recalculation:

$$\#19 \text{ Cr6+} = \frac{(0.1079 + 0.02694) \times 0.12}{0.011087 \times 2.578 \times 0.985} = 0.48 \text{ mg/kg}$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
<u>10</u>	<u>10</u>	<u>F</u>	<u>3.2</u>	<u>3.2</u>	<u>Y</u>
		<u>NO3</u>	<u>1.3</u>	<u>1.3</u>	<u>Y</u>
		<u>Cr6+</u>	<u>0.37</u>	<u>0.387</u>	<u>Y</u>
<u>2</u>	<u>19</u>	<u>WATER F</u>	<u>3.5</u>	<u>3.5</u>	<u>Y</u>
		<u>NO3</u>	<u>2.3</u>	<u>2.3</u>	<u>Y</u>
		<u>Cr6+</u>	<u>0.47</u>	<u>0.48</u>	<u>Y</u>

Note: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory
Collection Date: September 19 through September 20, 2011
LDC Report Date: January 3, 2012
Matrix: Soil
Parameters: Total Petroleum Hydrocarbons as Extractables
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE248

Sample Identification

SL-131-SA7-SS-0.0-0.5
SL-137-SA7-SS-0.0-0.5
SL-138-SA7-SS-0.0-0.5
SL-005-SA7-SS-0.0-0.5
SL-006-SA7-SS-0.0-0.5
SL-043-SA7-SS-0.0-0.5
SL-046-SA7-SS-0.0-0.5
SL-047-SA7-SS-0.0-0.5
SL-049-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5
SL-051-SA7-SS-0.0-0.5
SL-085-SA7-SS-0.0-0.5
SL-129-SA7-SS-0.0-0.5
SL-134-SA7-SS-0.0-0.5
SL-135-SA7-SS-0.0-0.5
SL-173-SA7-SS-0.0-0.5
DUP03-SA7-QC-092011
SL-136-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5MS
SL-050-SA7-SS-0.0-0.5MSD

Introduction

This data review covers 20 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Total Petroleum Hydrocarbons (TPH) as Extractables.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as extractable contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
PBLK02268	9/26/11	Extractable fuel hydrocarbons (C21-C30) Extractable fuel hydrocarbons (C30-C40)	0.68 mg/Kg 2.0 mg/Kg	All samples in SDG DE248

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. Surrogate recoveries (%R) were not within QC limits for several samples. Since the samples were diluted out, no data were qualified.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were not within QC limits. Since the sample was diluted out, no data were qualified.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE248	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples SL-050-SA7-SS-0.0-0.5 and DUP03-SA7-QC-092011 were identified as field duplicates. No total petroleum hydrocarbons as extractables were detected in any of the samples with the following exceptions:

Compound	Concentration (mg/Kg)		RPD (Limits)	Flags	A or P
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
Extractable fuel hydrocarbons (C21-C30)	230	370	47 (≤50)	-	-
Extractable fuel hydrocarbons (C30-C40)	1000	1200	18 (≤50)	-	-

Compound	Concentration (mg/Kg)		RPD (Limits)	Flags	A or P
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
Extractable fuel hydrocarbons (C15-C20)	35	54	42 (≤50)	-	-

**Santa Susana Field Laboratory
 Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary -
 SDG DE248**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE248	SL-131-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

**Santa Susana Field Laboratory
 Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data
 Qualification Summary - SDG DE248**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory
 Total Petroleum Hydrocarbons as Extractables - Field Blank Data Qualification
 Summary - SDG DE248**

No Sample Data Qualified in this SDG

LDC #: 26859R8

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE248

Level IV

Laboratory: Lancaster Laboratories

Date: 12/30/11

Page: 1 of 1

Reviewer: 2nd Reviewer: **METHOD:** GC TPH as Extractables (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/19 - 9/20/11
II.	Initial calibration	A	% RSD ≤ 20
III.	Calibration verification/ICV	A	100/cv ≤ 20
IV.	Blanks	SW	
V.	Surrogate recovery	SW	
VI.	Matrix spike/Matrix spike duplicates	SW	
VII.	Laboratory control samples	A	LCS
VIII.	Target compound identification	A	
IX.	Compound quantitation/RL/LOQ/LODs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	SW	D = 10 + 17
XIII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

2011

1†	SL-131-SA7-SS-0.0-0.5	11	SL-051-SA7-SS-0.0-0.5	21	PBLK0226X	31
2†	SL-137-SA7-SS-0.0-0.5	12	SL-085-SA7-SS-0.0-0.5	22		32
3	SL-138-SA7-SS-0.0-0.5	13	SL-129-SA7-SS-0.0-0.5	23		33
4	SL-005-SA7-SS-0.0-0.5	14	SL-134-SA7-SS-0.0-0.5	24		34
5	SL-006-SA7-SS-0.0-0.5	15	SL-135-SA7-SS-0.0-0.5	25		35
6	SL-043-SA7-SS-0.0-0.5	16	SL-173-SA7-SS-0.0-0.5	26		36
7	SL-046-SA7-SS-0.0-0.5	17	DUP03-SA7-QC-092011	27		37
8	SL-047-SA7-SS-0.0-0.5	18	SL-136-SA7-SS-0.0-0.5	28		38
9	SL-049-SA7-SS-0.0-0.5	19	SL-050-SA7-SS-0.0-0.5MS	29		39
10	SL-050-SA7-SS-0.0-0.5	20	SL-050-SA7-SS-0.0-0.5MSD	30		40

Notes: _____

LDC #: 26859 P8
 SDG #: see cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
 Reviewer: FI
 2nd Reviewer: [Signature]

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) < 20%?	/			
Was a curve fit used for evaluation?		/		
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?			/	
Were the RT windows properly established?	/			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	/			
Were all percent differences (%D) < 20% or percent recoveries 80-120%?	/			
Were all the retention times within the acceptance windows?	/			
V. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	/			
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?		/		
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?		/		
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			/	
Were the performance evaluation (PE) samples within the acceptance limits?			/	

LDC #: 26859 RY
 SDG #: per count

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: FJ
 2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XII. System performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field duplicates.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XV. Field blanks				
Field blanks were identified in this SDG.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field blanks.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

LDC #: 26859R8
 SDG #: see cover

VALIDATION FINDINGS WORKSHEET
 Field Duplicates

Page: 7 of 7
 Reviewer: [Signature]
 2nd reviewer: [Signature]

METHOD: GC HPLC

X N N/A Were field duplicate pairs identified in this SDG?

Y N N/A Were target compounds detected in the field duplicate pairs?

(fd)

Compound	Concentration (mg/kg)		%RPD Limit	Qualification Parent only / All Samples
	10	17		
EFH (c21-c30)	230	140 370	47 ≤ 50	
EFH (c30-c40)	1000	1200	18 ≤ 50	
EFH (c15-c20)	35	51	42 ≤ 50	

Compound	Concentration ()		%RPD Limit	Qualification Parent only / All Samples

LDC #: 26859R
 SDG #: GC

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC ✓ HPLC _____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

- CF = A/C
- average CF = sum of the CF/number of standards
- %RSD = $100 * (S/X)$
- A = Area of compound,
- C = Concentration of compound,
- S = Standard deviation of the CF
- X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF (std)	CF (std)	Average CF (Initial)	Average CF (Initial)	%RSD	%RSD		
1	1CAL	9/13/11	cg-c40	22403	22403	22857	22857	2.3	2.3	2.3	2.3
2	1CAL	10/01/11	↓	24669	24669	25106	25106	4.4	4.4	4.4	4.4
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 2689 RJ
 SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
 Reviewer: FT
 2nd reviewer: CA

METHOD: GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100
 Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: # /

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	
<i>chloro benzene</i>	<i>MS</i>	<i>1.0</i>	<i>0.79183</i>	<i>79</i>	<i>79</i>	<i>0</i>
<i>or the other plug</i>	<i>↓</i>	<i>1.0</i>	<i>0.930593</i>	<i>93</i>	<i>93</i>	<i>0</i>

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	

LDC #: 2685928
 SDG #: see cover

Page: 1 of 1
 Reviewer: PS
 2nd Reviewer: C

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

METHOD: GC HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SSC - SC) / SA$ Where: SSC = Spiked sample concentration SC = Concentration
 RPD = $|LCS - LCSD| * 2 / (LCS + LCSD)$ SA = Spike added
 LCS = Laboratory control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LC5

Compound	Spike Added (mg/kg)		Spiked Sample Concentration (mg/kg)		LCS		LCSD		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.								
Gasoline (8015)														
<u>EFH (230-240)</u> Diesel (8015)	2.51	NA	2.35	NA	94	94								
Benzene (8021B)														
Methane (RSK-175)														
2,4-D (8151)														
Dinoseb (8151)														
Naphthalene (8310)														
Anthracene (8310)														
HMX (8330)														
2,4,6-Trinitrotoluene (8330)														

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory
Collection Date: September 19 through September 20, 2011
LDC Report Date: January 3, 2012
Matrix: Soil
Parameters: Explosives
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE248

Sample Identification

SL-046-SA7-SS-0.0-0.5
SL-047-SA7-SS-0.0-0.5
SL-049-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5
SL-051-SA7-SS-0.0-0.5
SL-134-SA7-SS-0.0-0.5
SL-135-SA7-SS-0.0-0.5
DUP03-SA7-QC-092011
SL-136-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5MS
SL-050-SA7-SS-0.0-0.5MSD

Introduction

This data review covers 11 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8330A for Explosives.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed for the primary (quantitation) column and confirmation column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at the required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No explosive contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE248	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples SL-050-SA7-SS-0.0-0.5 and DUP03-SA7-QC-092011 were identified as field duplicates. No explosives were detected in any of the samples.

**Santa Susana Field Laboratory
Explosives - Data Qualification Summary - SDG DE248**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE248	SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

**Santa Susana Field Laboratory
Explosives - Laboratory Blank Data Qualification Summary - SDG DE248**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory
Explosives - Field Blank Data Qualification Summary - SDG DE248**

No Sample Data Qualified in this SDG

LDC #: 26859R40

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE248

Level IV

Laboratory: Lancaster Laboratories

Date: 12/30/11

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: HPLC Explosives (EPA SW 846 Method 8330A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 9/19 - 9/20/11
II.	Initial calibration	Δ	% RSD ≤ 20, R ²
III.	Calibration verification/ICV	Δ	1CV/CCV ≤ 20
IV.	Blanks	Δ	
V.	Surrogate recovery	Δ	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	see ID
VIII.	Target compound identification	Δ	
IX.	Compound quantitation (RV)/LOQ/LODs	A	
X.	System Performance	Δ	
XI.	Overall assessment of data	A	
XII.	Field duplicates	ND	D = 4 + 8
XIII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SL-046-SA7-SS-0.0-0.5	11	SL-050-SA7-SS-0.0-0.5MSD	21	PBLK16269	31	
2	SL-047-SA7-SS-0.0-0.5	12		22		32	
3	SL-049-SA7-SS-0.0-0.5	13		23		33	
4	SL-050-SA7-SS-0.0-0.5	14		24		34	
5	SL-051-SA7-SS-0.0-0.5	15		25		35	
6	SL-134-SA7-SS-0.0-0.5	16		26		36	
7	SL-135-SA7-SS-0.0-0.5	17		27		37	
8	DUP03-SA7-QC-092011 ✓	18		28		38	
9	SL-136-SA7-SS-0.0-0.5	19		29		39	
10	SL-050-SA7-SS-0.0-0.5MS	20		30		40	

Notes: _____

LDC #: 2685924U
 SDG #: per owner

VALIDATION FINDINGS CHECKLIST

Page: / of 2
 Reviewer: FR
 2nd Reviewer: C

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cooler temperature criteria was met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) < 20%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a curve fit used for evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the RT windows properly established?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
III. Continuing calibration				
Was a continuing calibration analyzed daily?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) < 20%.0 or percent recoveries 80-120%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all the retention times within the acceptance windows?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IV. Blanks				
Was a method blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a method blank analyzed for each matrix and concentration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
V. Surrogate spikes				
Were all surrogate %R within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a MS/MSD analyzed every 20 samples of each matrix?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was an LCS analyzed per extraction batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VIII. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the performance evaluation (PE) samples within the acceptance limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

LDC #: 26859R4U
 SDG #: per count

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: F7
 2nd Reviewer: C

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?			/	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XII. System performance				
System performance was found to be acceptable.	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	/			
Target compounds were detected in the field duplicates.		/		
XV. Field blanks				
Field blanks were identified in this SDG.			/	
Target compounds were detected in the field blanks.			/	

LDC #: 26859 R4U
 SDG #: JKC

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
 Reviewer: FJ
 2nd Reviewer: [Signature]

METHOD: GC ✓ HPLC _____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

- CF = A/C
- average CF = sum of the CF/number of standards
- %RSD = $100 * (S/X)$
- A = Area of compound,
- C = Concentration of compound,
- S = Standard deviation of the CF
- X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF (std)	CF (std)	Average CF (Initial)	Average CF (Initial)	%RSD	%RSD		
1	1CAL	8/26/11	2,6 -DNT chromat	1.29×10^2	1.29×10^2	1.29×10^2	1.29×10^2	3.7	3.7	3.7	3.7
			2,4-DNT	2.8×10^2	2.8×10^2	2.8×10^2	2.8×10^2	2.3	2.3	2.3	2.3
2			Capcel 1	3.53×10^2	3.53×10^2	3.53×10^2	3.53×10^2	9.5	9.5	9.5	9.5
				2.48×10^2	2.48×10^2	2.48×10^2	2.48×10^2	16.5	16.5	16.5	16.5
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26859R40
 SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
 Reviewer: FD
 2nd Reviewer: LC

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 * (\text{ave. CF} - \text{CF}) / \text{ave. CF}$ Where: ave. CF = initial calibration average CF
 CF = continuing calibration CF
 A = Area of compound
 C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (Area)/ GCV Conc.	Reported		Recalculated	
					CF/Conc. GCV	%D	CF/Conc. GCV	%D
1	004:54	10/4/11	2,6-DNT 2,4-DNT ↓ capcell	1001.00 1003.00 NA	1021.54 1000.54 NR	2.1 1.8	2.1 1.8	
2			↓	1003.00	1114.92	11.2	11.2	
3	00V 13:23	10/4/11	↓	502.30 501.30	496.88 487.10	0.7 2.9	0.7 2.9	
4			↓	502.30 501.30	7079.34 7075.55	10.8 7.3	10.8 6.5	

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100
 Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: # /

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	
2-Nitro-m-xylene	chrompack	2000	2250.178/6	113	113	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = $100 * ((SSC - SC) / SA)$ Where SSC = Spiked sample concentration SA = Spike added
 RPD = $(((SSCMS - SSCMSD) * 2) / ((SSCMS + SSCMSD))) * 100$ MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 10 → 11

Compound	Spike Added (ug/kg)		Sample Conc. (ug/kg)	Spike Sample Concentration (ug/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD		MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)	2000	2000	ND	1837.78	1855.76	92	92	93	93	1	1
2,4,6-Trinitrotoluene (8330)	1999.2	1999.2	ND	2119.77	2133.98	106	106	107	107	1	1

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26859R4U
 SDG #: for cover

Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

METHOD: GC HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SSC-SC)/SA$ Where: SSC = Spiked sample concentration SC = Concentration
 RPD = $1 LCS - LCSD \div 2(LCS + LCSD)$ SA = Spike added
 LCS = Laboratory control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: 4516269

Compound	Spike Added (<u>4516269</u>)		Spiked Sample Concentration (<u>4516269</u>)		LCS		LCSD		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)														
Diesel (8015)														
Benzene (8021B)														
Methane (RSK-175)														
2,4-D (8151)														
Dinoseb (8151)														
Naphthalene (8310)														
Anthracene (8310)														
HMX (8330)	<u>2000</u>	<u>N/A</u>	<u>1850.64</u>	<u>1802.64</u>	<u>93</u>	<u>93</u>								
2,4,6-Trinitrotoluene (8330)	<u>1999.2</u>	<u>L</u>	<u>2151.55</u>	<u>2151.55</u>	<u>105</u>	<u>105</u>								

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory
Collection Date: September 19 through September 20, 2011
LDC Report Date: January 3, 2012
Matrix: Soil
Parameters: Terphenyls
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE248

Sample Identification

SL-131-SA7-SS-0.0-0.5
SL-137-SA7-SS-0.0-0.5
SL-138-SA7-SS-0.0-0.5
SL-005-SA7-SS-0.0-0.5
SL-006-SA7-SS-0.0-0.5
SL-043-SA7-SS-0.0-0.5
SL-046-SA7-SS-0.0-0.5
SL-047-SA7-SS-0.0-0.5
SL-049-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5
SL-051-SA7-SS-0.0-0.5
SL-085-SA7-SS-0.0-0.5
SL-129-SA7-SS-0.0-0.5
SL-134-SA7-SS-0.0-0.5
SL-135-SA7-SS-0.0-0.5
SL-173-SA7-SS-0.0-0.5
DUP03-SA7-QC-092011
SL-136-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5MS

Introduction

This data review covers 19 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Terphenyls.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No terphenyl contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Column	Surrogate	%R (Limits)	Compound	Flag	A or P
SL-051-SA7-SS-0.0-0.5	Not specified	n-Triacontane	15 (19-152)	All TCL compounds	J (all detects) UJ (all non-detects)	P
SL-135-SA7-SS-0.0-0.5	Not specified	n-Triacontane	339 (19-152)	All TCL compounds	J (all detects)	P

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE248	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples SL-050-SA7-SS-0.0-0.5 and DUP03-SA7-QC-092011 were identified as field duplicates. No terphenyls were detected in any of the samples.

**Santa Susana Field Laboratory
Terphenyls - Data Qualification Summary - SDG DE248**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE248	SL-051-SA7-SS-0.0-0.5	All TCL compounds	J (all detects) UJ (all non-detects)	P	Surrogate recovery (%R) (S)
DE248	SL-135-SA7-SS-0.0-0.5	All TCL compounds	J (all detects)	P	Surrogate recovery (%R) (S)
DE248	SL-131-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

**Santa Susana Field Laboratory
Terphenyls - Laboratory Blank Data Qualification Summary - SDG DE248**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory
Terphenyls - Field Blank Data Qualification Summary - SDG DE248**

No Sample Data Qualified in this SDG

METHOD: GC Terphenyls (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>9/19 - 9/20/11</u>
II.	Initial calibration	A	<u>% RSD ≤ 20</u>
III.	Calibration verification/IC Q	A	<u>CV ≤ 20</u>
IV.	Blanks	A	
V.	Surrogate recovery	SW	
VI.	Matrix spike/Matrix spike duplicates	A	<u>MS only</u>
VII.	Laboratory control samples	A	<u>LC > 0</u>
VIII.	Target compound identification	A	
IX.	Compound quantitation (R)/LOQ/LODs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	ND	<u>D = 10 & 17</u>
XIII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:
SOIL

1	SL-131-SA7-SS-0.0-0.5	11	SL-051-SA7-SS-0.0-0.5	21	<u>PBLK44267</u>	31	
2	SL-137-SA7-SS-0.0-0.5	12	SL-085-SA7-SS-0.0-0.5	22		32	
3	SL-138-SA7-SS-0.0-0.5	13	SL-129-SA7-SS-0.0-0.5	23		33	
4	SL-005-SA7-SS-0.0-0.5	14	SL-134-SA7-SS-0.0-0.5	24		34	
5	SL-006-SA7-SS-0.0-0.5	15	SL-135-SA7-SS-0.0-0.5	25		35	
6	SL-043-SA7-SS-0.0-0.5	16	SL-173-SA7-SS-0.0-0.5	26		36	
7	SL-046-SA7-SS-0.0-0.5	17	DUP03-SA7-QC-092011	27		37	
8	SL-047-SA7-SS-0.0-0.5	18	SL-136-SA7-SS-0.0-0.5	28		38	
9	SL-049-SA7-SS-0.0-0.5	19	SL-050-SA7-SS-0.0-0.5MS	29		39	
10	SL-050-SA7-SS-0.0-0.5	20	SL-050-SA7-SS-0.0-0.5MSD	30		40	

Notes: _____

LDC #: 26859R41
 SDG #: see cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
 Reviewer: FJ
 2nd Reviewer: [Signature]

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cooler temperature criteria was met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) < 20%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a curve fit used for evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the RT windows properly established?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) < 20%.0 or percent recoveries 80-120%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all the retention times within the acceptance windows?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
V. Blanks				
Was a method blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a method blank analyzed for each matrix and concentration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a MS/MSD analyzed every 20 samples of each matrix?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was an LCS analyzed per extraction batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the performance evaluation (PE) samples within the acceptance limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

LDC #: 26859 R41
 SDG #: per count

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: F7
 2nd Reviewer: [Signature]

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?			/	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XII. System performance				
System performance was found to be acceptable.	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	/			
Target compounds were detected in the field duplicates.		/		
XV. Field blanks				
Field blanks were identified in this SDG.		/		
Target compounds were detected in the field blanks.			/	

LDC #: 2689R41
 SDG #: JK walt

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
 Reviewer: FJ
 2nd Reviewer: [Signature]

METHOD: GC HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
 average CF = sum of the CF/number of standards
 %RSD = 100 * (S/X)
 A = Area of compound,
 C = Concentration of compound,
 S = Standard deviation of the CF
 X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF (std)	CF (std)	Average CF (Initial)	Average CF (Initial)	%RSD	%RSD		
1	1CA L	9/18/11	m-terphenyl	2.52 x 10 ⁴	16.9944	2.52 x 10 ⁴	16.9944	2.55 x 10 ⁴	5.3	5.3	
2											
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

METHOD: GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS * 100$
 Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: #

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	
n-Triacontane - d62	MS	0.333	0.22611	68	68	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = $100 * ((SC - SA) / SA)$ Where SSC = Spiked sample concentration SC = Sample concentration
 SA = Spike added
 RPD = $(((SCMS - SSCMSD) * 2) / ((SCMS + SSCMSD))) * 100$ MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 19

Compound	Spike Added (mg/kg)		Sample Conc. (mg/kg)	Spike Sample Concentration (mg/kg)		Matrix spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
<u>m-Terphenyl</u>	8.21	NA	ND	7.58	NA	92	92	NA	NA		

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

METHOD: GC HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SSC-SC)/SA$ Where: SSC = Spiked sample concentration SC = Concentration
RPD = $|LCS - LCSD| * 2 / (LCS + LCSD)$ SA = Spike added

LCS = Laboratory control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: A vs S

Compound	Spike Added (mg/kg)		Spiked Sample Concentration		LCS		LCSD		Percent Recovery		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)																
Diesel (8015)																
Benzene (8021B)																
Methane (RSK-175)																
2,4-D (8151)																
Dinoseb (8151)																
Naphthalene (8310)																
Anthracene (8310)																
HMX (8330)																
2,4,6-Trinitrotoluene (8330)																
m-Terpene	8.21	NA	7.66	NA	93	93										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory
Collection Date: September 19 through September 20, 2011
LDC Report Date: January 3, 2012
Matrix: Soil
Parameters: Alcohols
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE248

Sample Identification

SL-131-SA7-SS-0.0-0.5
SL-137-SA7-SS-0.0-0.5
SL-138-SA7-SS-0.0-0.5
SL-005-SA7-SS-0.0-0.5
SL-006-SA7-SS-0.0-0.5
SL-043-SA7-SS-0.0-0.5
SL-046-SA7-SS-0.0-0.5
SL-047-SA7-SS-0.0-0.5
SL-049-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5
SL-051-SA7-SS-0.0-0.5
SL-085-SA7-SS-0.0-0.5
SL-129-SA7-SS-0.0-0.5
SL-134-SA7-SS-0.0-0.5
SL-135-SA7-SS-0.0-0.5
SL-173-SA7-SS-0.0-0.5
DUP03-SA7-QC-092011
SL-136-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5MS
SL-050-SA7-SS-0.0-0.5MSD

Introduction

This data review covers 20 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Alcohols.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits with the following exceptions:

Date	Column	Compound	%D	Associated Samples	Flag	A or P
9/24/11	RTX-200	Methanol	26.1	SL-138-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 PBLK34265	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No alcohol contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Column	Surrogate	%R (Limits)	Compound	Flag	A or P
SL-129-SA7-SS-0.0-0.5	Not specified	Acetone	41 (42-138)	All TCL compounds	J (all detects) UJ (all non-detects)	A

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-050-SA7-SS-0.0-0.5MS/MSD (SL-050-SA7-SS-0.0-0.5)	Methanol Ethanol	- -	- -	25 (≤20) 26 (≤20)	J (all detects) J (all detects)	A

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE248	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples SL-050-SA7-SS-0.0-0.5 and DUP03-SA7-QC-092011 were identified as field duplicates. No alcohols were detected in any of the samples.

**Santa Susana Field Laboratory
Alcohols - Data Qualification Summary - SDG DE248**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE248	SL-138-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5	Methanol	J (all detects) UJ (all non-detects)	A	Calibration verification (%D) (C)
DE248	SL-129-SA7-SS-0.0-0.5	All TCL compounds	J (all detects) UJ (all non-detects)	A	Surrogate recovery (%R) (S)
DE248	SL-050-SA7-SS-0.0-0.5	Methanol Ethanol	J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (RPD) (Q)
DE248	SL-131-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

**Santa Susana Field Laboratory
Alcohols - Laboratory Blank Data Qualification Summary - SDG DE248**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory
Alcohols - Field Blank Data Qualification Summary - SDG DE248**

No Sample Data Qualified in this SDG

METHOD: GC Alcohols (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/19 - 9/20/11
II.	Initial calibration	A	% PSD ≤ 20
III.	Calibration verification/ICV	SW	1CW / CW ≤ 2W
IV.	Blanks	A	
V.	Surrogate recovery	SW	
VI.	Matrix spike/Matrix spike duplicates	SW	
VII.	Laboratory control samples	A	LOS
VIII.	Target compound identification	A	
IX.	Compound quantitation (R)/LOQ/LODs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	ND	P = 10 + 17
XIII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	2	SL-131-SA7-SS-0.0-0.5	11	2	SL-051-SA7-SS-0.0-0.5	21	1	PBLK 34265	31
2	2	SL-137-SA7-SS-0.0-0.5	12	1	SL-085-SA7-SS-0.0-0.5	22	2	PBLK 24269	32
3	1	SL-138-SA7-SS-0.0-0.5	13	2	SL-129-SA7-SS-0.0-0.5	23			33
4	2	SL-005-SA7-SS-0.0-0.5	14	2	SL-134-SA7-SS-0.0-0.5	24			34
5	2	SL-006-SA7-SS-0.0-0.5	15	2	SL-135-SA7-SS-0.0-0.5	25			35
6	2	SL-043-SA7-SS-0.0-0.5	16	1	SL-173-SA7-SS-0.0-0.5	26			36
7	2	SL-046-SA7-SS-0.0-0.5	17	2	DUP03-SA7-QC-092011	27			37
8	2	SL-047-SA7-SS-0.0-0.5	18	2	SL-136-SA7-SS-0.0-0.5	28			38
9	2	SL-049-SA7-SS-0.0-0.5	19	2	SL-050-SA7-SS-0.0-0.5MS	29			39
10	2	SL-050-SA7-SS-0.0-0.5	20	2	SL-050-SA7-SS-0.0-0.5MSD	30			40

Notes: _____

DC #: 26559243
 DG #: su coner

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
 Reviewer: F2
 2nd Reviewer: C

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cooler temperature criteria was met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) < 20%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a curve fit used for evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the RT windows properly established?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
III. Continuing calibration				
Was a continuing calibration analyzed daily?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) < 15%:0 or percent recoveries 85-115%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	80-120
Were all the retention times within the acceptance windows?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IV. Blanks				
Was a method blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a method blank analyzed for each matrix and concentration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
V. Surrogate spikes				
Were all surrogate %R within the QC limits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a MS/MSD analyzed every 20 samples of each matrix?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
VII. Laboratory controls samples				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was an LCS analyzed per extraction batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VIII. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the performance evaluation (PE) samples within the acceptance limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

DC #: 26859 R43
 DG #: see cover

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

Validation Area	Yes	No	NA	Findings/Comments
XI: Target compound identification				
Were the retention times of reported detects within the RT windows?	<input checked="" type="checkbox"/>			
XII: Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>			
XIII: System performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>			
XIV: Overall assessment of data				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>			
XV: Field duplicates				
Field duplicate pairs were identified in this SDG.	<input checked="" type="checkbox"/>			
Target compounds were detected in the field duplicates.		<input checked="" type="checkbox"/>		
XVI: Field blanks				
Field blanks were identified in this SDG.		<input checked="" type="checkbox"/>		
Target compounds were detected in the field blanks.			<input checked="" type="checkbox"/>	

LDC #: 26859R43
 SDG #: PK conch

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
 Reviewer: FA
 2nd Reviewer: CA

METHOD: GC ✓ HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
 average CF = sum of the CF/number of standards
 %RSD = $100 * (S/X)$
 A = Area of compound,
 C = Concentration of compound,
 S = Standard deviation of the CF
 X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				SPOD CF (std)	SPOD CF (std)	Average CF (Initial)	Average CF (Initial)	%RSD	%RSD	Average CF (Initial)	%RSD
1	ICAL IM27235 SP-1000	8/23/11	methanol	4.99 x 10 ⁻¹	4.99 x 10 ⁻¹	5.19 x 10 ⁻¹	5.19 x 10 ⁻¹	6.3	6.3	6.3	6.3
2	ICAL IM27241A RSX-200	8/29/11	methanol	7.22 x 10 ⁰	7.22 x 10 ⁰	7.75 x 10 ⁰	7.75 x 10 ⁰	4.4	4.4	4.4	4.4
3	ICAL IM27270A	9/27/11	methanol	8.29 x 10 ⁰	8.29 x 10 ⁰	7.95 x 10 ⁰	7.95 x 10 ⁰	16.3	16.3	16.3	16.3
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26 859 R 43
 SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
 Reviewer: FD
 2nd Reviewer: E

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \cdot (\text{ave. CF} - \text{CF}) / \text{ave. CF}$ Where: ave. CF = initial calibration average CF
 CF = A/C
 CF = continuing calibration CF
 A = Area of compound
 C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/ CCV Conc.	Reported		Recalculated	
					CF/Conc. CCV	%D	CF/Conc. CCV	%D
1	cen 22:45 (M27241A) (RTX-200)	9/24/11	methanol	5000.00	6306.82	26.1	6306.82	26.1
2	cen 0:49 IM27235 (SF-100)	9/27/11	methanol	↓	4938.39	1.2	4938.39	1.2
3	cen 23:20 IM27270A	9/27/11	methanol	↓	5723.63	14.5	5723.63	14.5
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET I
Surrogate Results Verification

LDC #: 26859R43
 SDG #: full center

METHOD: GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS * 100$ Where: SF = Surrogate Found
 SS = Surrogate Spiked

Reviewer: [Signature]
 2nd reviewer: [Signature]

Sample ID: # 1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Acetone	col. B	250g	1855.94g	74	74	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = $100 \cdot ((SSC - SC) / SA)$ Where SSC = Spiked sample concentration SC = Sample concentration
 SA = Spike added
 MS = Matrix spike
 RPD = $((SSCMS - SSCMSD) \cdot 2) / ((SSCMS + SSCMSD)) \cdot 100$ MSD = Matrix spike duplicate

MS/MSD samples: 19 d 20

Compound	Spike Added (ug/kg)		Sample Conc. (ug/kg)	Spike Sample Concentration (ug/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD		MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
Methano	2500	2500	ND	2679.3	2081.43	107	107	83	83	25	25

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26857243
 SDG #: GC cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 \times \frac{SSC-SC}{SA}$ Where: SSC = Spiked sample concentration SC = Concentration
 RPD = $100 \times \frac{LCS - LCSD}{LCS + LCSD}$ SA = Spike added

LCS/LCSD samples: LCS 34265 LCS = Laboratory control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

Compound	Spike Added (ug/kg)		Spiked Sample Concentration		LCS		LCSD		Percent Recovery		Percent Recovery		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)														
Diesel (8015)														
Benzene (8021B)														
Methane (RSK-175)														
2,4-D (8151)														
Dinoseb (8151)														
Naphthalene (8310)														
Anthracene (8310)														
HMX (8330)														
2,4,6-Trinitrotoluene (8330)														
Methanol	2506	NA	2861.32	NA	114	114							NA	

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory
Collection Date: September 19 through September 20, 2011
LDC Report Date: January 3, 2012
Matrix: Soil
Parameters: Glycols
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE248

Sample Identification

SL-131-SA7-SS-0.0-0.5
SL-137-SA7-SS-0.0-0.5
SL-138-SA7-SS-0.0-0.5
SL-005-SA7-SS-0.0-0.5
SL-006-SA7-SS-0.0-0.5
SL-043-SA7-SS-0.0-0.5
SL-046-SA7-SS-0.0-0.5
SL-047-SA7-SS-0.0-0.5
SL-049-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5
SL-051-SA7-SS-0.0-0.5
SL-085-SA7-SS-0.0-0.5
SL-129-SA7-SS-0.0-0.5
SL-134-SA7-SS-0.0-0.5
SL-135-SA7-SS-0.0-0.5
SL-173-SA7-SS-0.0-0.5
DUP03-SA7-QC-092011
SL-136-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5MS
SL-050-SA7-SS-0.0-0.5MSD

Introduction

This data review covers 20 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Glycols.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No glycol contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-050-SA7-SS-0.0-0.5MS/MSD (SL-050-SA7-SS-0.0-0.5)	Ethylene glycol	19 (63-107)	19 (63-107)	-	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A
	Propylene glycol	31 (63-107)	31 (63-107)	-		
SL-050-SA7-SS-0.0-0.5MS/MSD (SL-050-SA7-SS-0.0-0.5)	Diethylene glycol	0 (59-109)	0 (59-109)	-	J (all detects) R (all non-detects)	A

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE248	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples SL-050-SA7-SS-0.0-0.5 and DUP03-SA7-QC-092011 were identified as field duplicates. No glycols were detected in any of the samples.

**Santa Susana Field Laboratory
Glycols - Data Qualification Summary - SDG DE248**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE248	SL-050-SA7-SS-0.0-0.5	Ethylene glycol Propylene glycol	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE248	SL-050-SA7-SS-0.0-0.5	Diethylene glycol	J (all detects) R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE248	SL-131-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

**Santa Susana Field Laboratory
Glycols - Laboratory Blank Data Qualification Summary - SDG DE248**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory
Glycols - Field Blank Data Qualification Summary - SDG DE248**

No Sample Data Qualified in this SDG

METHOD: GC Glycols (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: <u>9/19- 9/20/11</u>
II.	Initial calibration	Δ	<u>% PSD \leq 20</u>
III.	Calibration verification/ICV	<u>A</u>	<u>100/ICV \leq 20</u>
IV.	Blanks	Δ	
V.	Surrogate recovery	<u>A</u>	
VI.	Matrix spike/Matrix spike duplicates	<u>SW</u>	
VII.	Laboratory control samples	<u>A</u>	<u>LC9</u>
VIII.	Target compound identification	<u>A</u>	
IX.	Compound quantitation/ <u>RL</u> /LOQ/LODs	<u>A</u>	
X.	System Performance	Δ	
XI.	Overall assessment of data	Δ	
XII.	Field duplicates	<u>ND</u>	<u>D = 10 + 17</u>
XIII.	Field blanks	<u>N</u>	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	<u>401L</u> SL-131-SA7-SS-0.0-0.5	11	SL-051-SA7-SS-0.0-0.5	21	<u>PBLK42272</u>	31	
2	SL-137-SA7-SS-0.0-0.5	12	SL-085-SA7-SS-0.0-0.5	22		32	
3	SL-138-SA7-SS-0.0-0.5	13	SL-129-SA7-SS-0.0-0.5	23		33	
4	SL-005-SA7-SS-0.0-0.5	14	SL-134-SA7-SS-0.0-0.5	24		34	
5	SL-006-SA7-SS-0.0-0.5	15	SL-135-SA7-SS-0.0-0.5	25		35	
6	SL-043-SA7-SS-0.0-0.5	16	SL-173-SA7-SS-0.0-0.5	26		36	
7	SL-046-SA7-SS-0.0-0.5	17	DUP03-SA7-QC-092011 ✓	27		37	
8	SL-047-SA7-SS-0.0-0.5	18	SL-136-SA7-SS-0.0-0.5	28		38	
9	SL-049-SA7-SS-0.0-0.5	19	SL-050-SA7-SS-0.0-0.5MS	29		39	
10	SL-050-SA7-SS-0.0-0.5 ✓	20	SL-050-SA7-SS-0.0-0.5MSD	30		40	

Notes: _____

LDC #: 26559 R45
 SDG #: per owner

VALIDATION FINDINGS CHECKLIST

Page: / of 2
 Reviewer: FP
 2nd Reviewer: C

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) < 20%?	/			
Was a curve fit used for evaluation?		/		
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?			/	
Were the RT windows properly established?	/			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	/			
Were all percent differences (%D) < 20%.0 or percent recoveries 80-120%?	/			
Were all the retention times within the acceptance windows?	/			
V. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		/		
VI. Surrogate/spikes				
Were all surrogate %R within the QC limits?	/			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			/	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		/		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			/	
Were the performance evaluation (PE) samples within the acceptance limits?			/	

LDC #: 26559145
 SDG #: per count

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: FJ
 2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?			<input checked="" type="checkbox"/>	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>			
XII. System performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	<input checked="" type="checkbox"/>			
Target compounds were detected in the field duplicates.		<input checked="" type="checkbox"/>		
XV. Field blanks				
Field blanks were identified in this SDG.		<input checked="" type="checkbox"/>		
Target compounds were detected in the field blanks.			<input checked="" type="checkbox"/>	

LDC #: 26859845
 SDG #: full work

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
 Reviewer: FJ
 2nd Reviewer: A

METHOD: GC ✓ HPLC _____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

- CF = A/C
- average CF = sum of the CF/number of standards
- %RSD = $100 * (S/X)$
- A = Area of compound,
- C = Concentration of compound,
- S = Standard deviation of the CF
- X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported	Recalculated	Reported	Recalculated	Reported	Recalculated
				CF (std)	CF (std)	Average CF (Initial)	Average CF (Initial)	%RSD	%RSD
1	1CAL GLFS224A	8/22/11	Propylene Glycol	105.3594 (std)	105.3594 (std)	8.04 x 10 ⁻²	8.04 x 10 ⁻²	3.1	3.1
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 76859RYS
 SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
 Reviewer: FD
 2nd Reviewer: [Signature]

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 * (\text{ave. CF} - \text{CF}) / \text{ave. CF}$ Where: ave. CF = Initial calibration average CF
 CF = A/C CF = continuing calibration CF
 A = Area of compound
 C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported		Recalculated	
					CF/Conc. CCV	%D	CF/Conc. CCV	%D
1	ceV 20:49	9/29/11	Propylene glycol	210.72	200.0	5.1	200.0	5.1
2	ceV 0:52	9/30/11	↓	↓	190.09	9.8	190.09	9.8
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26887 R45
 SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
 Reviewer: FT
 2nd reviewer: [Signature]

METHOD: GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS * 100$
 Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrame thylene glycol	MS	195	129.918747	67	67	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = $100 \cdot ((SSC - SC)/SA)$ Where SSC = Spiked sample concentration SC = Sample concentration SA = Spike added
 RPD = $((SSCMS - SSCMSD) \cdot 2) / (SSCMS + SSCMSD) \cdot 100$ MSD = Matrix spike duplicate

MS/MSD samples: 191 & 190

Compound	Spike Added (mg/kg)		Sample Conc. (mg/kg)	Spike Sample Concentration (mg/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD		MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
ethylene glycol	190.31	190.31	ND	36.75	36.59	19	19	19	19	0	0

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

METHOD: GC HPLC

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 \times \frac{SSC - SC}{SSC}$ (SSC = Spiked sample concentration, SC = Concentration)
 RPD = $\frac{|LCS - LCSD|}{\frac{LCS + LCSD}{2}} \times 100$ (LCS = Laboratory control sample percent recovery, LCSD = Laboratory control sample duplicate percent recovery)

LCS/LCSD samples: 105422-12

Compound	Spike Added (mg/kg)		Spiked Sample Concentration (mg/kg)		LCS		LCSD		Percent Recovery		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)												
Diesel (8015)												
Benzene (8021B)												
Methane (RSK-175)												
2,4-D (8151)												
Dinoseb (8151)												
Naphthalene (8310)												
Anthracene (8310)												
HMX (8330)												
2,4,6-Trinitrotoluene (8330)												
ethylene glycol	190.31	NA	181.27	NA	98	98					NA	

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory
Collection Date: September 20, 2011
LDC Report Date: January 3, 2012
Matrix: Soil
Parameters: Formaldehyde
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE248

Sample Identification

SL-043-SA7-SS-0.0-0.5
SL-046-SA7-SS-0.0-0.5
SL-047-SA7-SS-0.0-0.5
SL-049-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5
SL-051-SA7-SS-0.0-0.5
SL-085-SA7-SS-0.0-0.5
SL-134-SA7-SS-0.0-0.5
SL-135-SA7-SS-0.0-0.5
SL-173-SA7-SS-0.0-0.5
DUP03-SA7-QC-092011
SL-136-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5MS
SL-050-SA7-SS-0.0-0.5MSD

Introduction

This data review covers 14 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8315A for Formaldehyde.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

A curve fit, based on the initial calibration, was established for quantitation. The coefficient of determination (r^2) was greater than or equal to 0.990 .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No formaldehyde was found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE248	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples SL-050-SA7-SS-0.0-0.5 and DUP03-SA7-QC-092011 were identified as field duplicates. No formaldehyde was detected in any of the samples.

**Santa Susana Field Laboratory
 Formaldehyde - Data Qualification Summary - SDG DE248**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE248	SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

**Santa Susana Field Laboratory
 Formaldehyde - Laboratory Blank Data Qualification Summary - SDG DE248**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory
 Formaldehyde - Field Blank Data Qualification Summary - SDG DE248**

No Sample Data Qualified in this SDG

LDC #: 26859R71
 SDG #: DE248
 Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET
 Level IV

Date: 12/30/11
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: HPLC Formaldehyde (EPA SW 846 Method 8315A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	△	Sampling dates: 9/20/11
II.	Initial calibration	△	12
III.	Calibration verification/ICV	△	ICV/CCV ≤ 20
IV.	Blanks	△	
V.	Surrogate recovery	△	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LCS
VIII.	Target compound identification	△	
IX.	Compound quantitation (R)/LOQ/LODs	△	
X.	System Performance	△	
XI.	Overall assessment of data	△	
XII.	Field duplicates	ND	D = 5 + 11
XIII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples: 5012

1	SL-043-SA7-SS-0.0-0.5	11	DUP03-SA7-QC-092011	21	PBLK08267	31	
2	SL-046-SA7-SS-0.0-0.5	12	SL-136-SA7-SS-0.0-0.5	22		32	
3	SL-047-SA7-SS-0.0-0.5	13	SL-050-SA7-SS-0.0-0.5MS	23		33	
4	SL-049-SA7-SS-0.0-0.5	14	SL-050-SA7-SS-0.0-0.5MSD	24		34	
5	SL-050-SA7-SS-0.0-0.5	15		25		35	
6	SL-051-SA7-SS-0.0-0.5	16		26		36	
7	SL-085-SA7-SS-0.0-0.5	17		27		37	
8	SL-134-SA7-SS-0.0-0.5	18		28		38	
9	SL-135-SA7-SS-0.0-0.5	19		29		39	
10	SL-173-SA7-SS-0.0-0.5	20		30		40	

Notes: _____

LDC #: 26859 R71
 SDG #: per owner

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
 Reviewer: FR
 2nd Reviewer: [Signature]

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cooler temperature criteria was met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) < 20%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Was a curve fit used for evaluation?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the RT windows properly established?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) < 20%.0 or percent recoveries 80-120%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all the retention times within the acceptance windows?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
V. Blanks				
Was a method blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a method blank analyzed for each matrix and concentration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VI. Surrogate/spikes				
Were all surrogate %R within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a MS/MSD analyzed every 20 samples of each matrix?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was an LCS analyzed per extraction batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the performance evaluation (PE) samples within the acceptance limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

LDC #: 26859 R71
 SDG #: per comment

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: F7
 2nd Reviewer: [Signature]

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?			/	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XII. System performance				
System performance was found to be acceptable.	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	/			
Target compounds were detected in the field duplicates.		/		
XV. Field blanks				
Field blanks were identified in this SDG.		/		
Target compounds were detected in the field blanks.			/	

LDC #: 26859R71
 SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 2
 Reviewer: FEJ
 2nd Reviewer: CR

METHOD: GC HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \cdot (\text{ave. CF} - \text{CF}) / \text{ave. CF}$ Where: ave. CF = initial calibration average CF
 CF = A/C
 CF = continuing calibration CF
 A = Area of compound
 C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported		Recalculated	
					CF/Conc. CCV	%D	CF/Conc. CCV	%D
1	ccv 18:32	9/28/11	Formaldehyde	2002.00	187.90	6.5	187.90	6.5
2	ccv 20:37	9/28/11	Formaldehyde	↓	188.34	7.2	188.34	7.2
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100
 Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: # /

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
<u>Butyraldehyde</u>	<u>NS</u>	<u>1992</u>	<u>380.4/2</u>	<u>95</u>	<u>95</u>	<u>0</u>

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = $100 * ((SSC - SC) / SA)$ Where SSC = Spiked sample concentration SC = Sample concentration
 SA = Spike added
 MS = Matrix spike
 RPD = $((SSC - SSCMS) * 2) / ((SSC + SSCMS)) * 100$ MSD = Matrix spike duplicate

MS/MSD samples: 13 4 14

Compound	Spike Added (ug/kg)		Sample Conc. (ug/kg)	Spike Sample Concentration (ug/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD		MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8019)	5025	5025	ND	4833.54	4918.3	96	96	98	98	2	2
Diesel (9015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC HPLC

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SSC - SC) / SA$ Where: SSC = Spiked sample concentration SC = Concentration
 RPD = $|(LCS - LCSD) / ((LCS + LCSD) / 2)|$ SA = Spike added LCS = Laboratory control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LC >

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS		LCSD		Percent Recovery		Percent Recovery		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)	SD25	NA	5161.55	NA	103	103 103	NA							
Diesel (8015)														
Benzene (8021B)														
Methane (RSK-175)														
2,4-D (8151)														
Diroseb (8151)														
Naphthalene (8310)														
Anthracene (8310)														
HMX (8330)														
2,4,6-Trinitrotoluene (8330)														

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: September 20, 2011

LDC Report Date: January 3, 2012

Matrix: Soil

Parameters: Perchlorate

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE248

Sample Identification

SL-085-SA7-SS-0.0-0.5

SL-173-SA7-SS-0.0-0.5

Introduction

This data review covers 2 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 6850 for Perchlorate.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

A curve fit, based on the initial calibration, was established for quantitation. The coefficient of determination (r^2) was greater than or equal to 0.990 .

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 15.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 15.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The percent differences (%D) of the limit of detection verification (LODV) calibration standard were less than or equal to 50.0% for perchlorate.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No perchlorate was found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogate spikes were not required by the method.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE248	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

**Santa Susana Field Laboratory
 Perchlorate - Data Qualification Summary - SDG DE248**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE248	SL-085-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

**Santa Susana Field Laboratory
 Perchlorate - Laboratory Blank Data Qualification Summary - SDG DE248**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory
 Perchlorate - Field Blank Data Qualification Summary - SDG DE248**

No Sample Data Qualified in this SDG

METHOD: LC/MS Perchlorate (EPA SW846 Method 6850)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: <u>9/20/11</u>
II.	GC/MS Instrument performance check	Δ	<u>PK</u>
III.	Initial calibration	Δ	<u>r²</u>
IV.	Continuing calibration/ICV	Δ	<u>ccv/icv ≤ 15/50 LODV ≤ 50</u>
V.	Blanks	A	
VI.	Surrogate spikes	N	
VII.	Matrix spike/Matrix spike duplicates	N	<u>client specified</u>
VIII.	Laboratory control samples	Δ	<u>LCs</u>
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	Δ	
XII.	Compound quantitation/RL/LOQ/LODs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	Δ	
XV.	Overall assessment of data	Δ	
XVI.	Field duplicates	N	
XVII.	Field blanks	~	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:
SOIL

1	SL-085-SA7-SS-0.0-0.5	11	<u>PBLK03269</u>	21		31	
2	SL-173-SA7-SS-0.0-0.5	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Method: Semivolatiles (EPA SW 846 Method 8270C) 6850

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cooler temperature criteria was met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
II. GC/MS Instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples analyzed within the 12 hour clock criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Was a curve fit used for evaluation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) > 0.05 ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were all percent differences (%D) $\leq 25\%$ and relative response factors (RRF) ≥ 0.05 ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>15/50</u>
V. Blanks				
Was a method blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a method blank analyzed for each matrix and concentration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VII. Matrix spike/Matrix spike duplicate				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Was a MS/MSD analyzed every 20 samples of each matrix?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the performance evaluation (PE) samples within the acceptance limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
X. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were retention times within + 30 seconds from the associated calibration standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XI. Target compound identification				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were chromatogram peaks verified and accounted for?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIII. Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
XIV. System performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XVI. Field duplicates				
Field duplicate pairs were identified in this SDG.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field duplicates.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
XVII. Field blanks				
Field blanks were identified in this SDG.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field blanks.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

LDC # 2685987
 SDG#

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: Method 6850
Parameter: perchlorate

Date	Column	Compound	y	x
09/28/2011	LCMS	perchlorate		
			0.0483598	0.040
			0.1050638	0.100
			0.2176812	0.200
			0.4230758	0.400
			1.1221277	1.000
			3.0476197	2.500

Regression Output:	Regression Output:	Reported
Constant	-0.03653	
Std Err of Y Est	0.04325	
R Squared	0.99888	0.99707
No. of Observations	6.00000	
Degrees of Freedom	4.00000	
X Coefficient(s)	1.222E+000	
Std Err of Coef.	0.020467	0.04

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$ Where: ave. RRF = initial calibration average RRF
 RRF = $(A_x)(C_b) / (A_b)(C_x)$ RRF = continuing calibration RRF
 A_x = Area of compound, A_b = Area of associated internal standard
 C_x = Concentration of compound, C_b = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (Initial)	Reported		Recalculated	
					RRF (CC)	%D	RRF (CC)	%D
1	M55-1010	9/27/11	Phenol (1st internal standard) <i>Perchlorate</i> Naphthalene (2nd internal standard) Fluorene (3rd internal standard) Pentachlorophenol (4th internal standard) Bis(2-ethylhexyl)phthalate (5th internal standard) Benzo(a)pyrene (6th internal standard)	4	3.68	8	3.68	8
2	M55-1021	9/27/11	Phenol (1st internal standard) <i>Perchlorate</i> Naphthalene (2nd internal standard) Fluorene (3rd internal standard) Pentachlorophenol (4th internal standard) Bis(2-ethylhexyl)phthalate (5th internal standard) Benzo(a)pyrene (6th internal standard)	0.4	0.422	5	0.422	5
3	M55-1028	9/27/11	Phenol (1st internal standard) <i>Perchlorate</i> Naphthalene (2nd internal standard) Fluorene (3rd internal standard) Pentachlorophenol (4th internal standard) Bis(2-ethylhexyl)phthalate (5th internal standard) Benzo(a)pyrene (6th internal standard)	4	3.7	8	3.7	8

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

METHOD: GG/MS-BNA (EPA SW-846 Method 8270) - 6852

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SC/SA)$ Where: SSC = Spike concentration
 SA = Spike added

RPD = $|LCSC - LCSDC| * 2 / (LCSC + LCSDC)$ LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: LES 03269

Compound	Spike Added (ug/kg)		Spike Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Perchlorate	100	NA	97	NA	97	97	NA	NA		
N-Nitroso-di-n-propylamine										
4-Chloro-3-methylphenol										
Acenaphthene										
Pentachlorophenol										
Pyrene										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

SAMPLE DELIVERY GROUP

DE249

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Sep-2011	TB-092011	6414174	TB	5030B	8015M	III
20-Sep-2011	SL-174-SA7-SB-1.0-2.0	6414173	N	3050B	6010B	III
20-Sep-2011	SL-174-SA7-SB-1.0-2.0	6414173	N	3050B	6020	III
20-Sep-2011	SL-174-SA7-SB-1.0-2.0	6414173	N	3060A	7199	III
20-Sep-2011	SL-174-SA7-SB-1.0-2.0	6414173	N	3546	1625C	III
20-Sep-2011	SL-174-SA7-SB-1.0-2.0	6414173	N	3550B	8015B	III
20-Sep-2011	SL-174-SA7-SB-1.0-2.0	6414173	N	3550B	8015M	III
20-Sep-2011	SL-174-SA7-SB-1.0-2.0	6414173	N	3550B	8082	III
20-Sep-2011	SL-174-SA7-SB-1.0-2.0	6414173	N	3550B	8270C	III
20-Sep-2011	SL-174-SA7-SB-1.0-2.0	6414173	N	3550B	8270C SIM	III
20-Sep-2011	SL-174-SA7-SB-1.0-2.0	6414173	N	5035	8015M	III
20-Sep-2011	SL-174-SA7-SB-1.0-2.0	6414173	N	8330	8330A	III
20-Sep-2011	SL-174-SA7-SB-1.0-2.0	6414173	N	METHOD	300.0	III
20-Sep-2011	SL-174-SA7-SB-1.0-2.0	6414173	N	METHOD	314.0	III
20-Sep-2011	SL-174-SA7-SB-1.0-2.0	6414173	N	METHOD	7471A	III
20-Sep-2011	SL-174-SA7-SB-1.0-2.0	6414173	N	METHOD	8015B	III
20-Sep-2011	SL-174-SA7-SB-1.0-2.0	6414173	N	METHOD	8015M	III
20-Sep-2011	SL-174-SA7-SB-1.0-2.0	6414173	N	METHOD	8315A	III
20-Sep-2011	SL-174-SA7-SB-1.0-2.0	6414173	N	METHOD	9012B	III
20-Sep-2011	SL-174-SA7-SB-1.0-2.0DUP	P414173D272000B	DUP	METHOD	9012B	III
20-Sep-2011	SL-174-SA7-SB-1.0-2.0DUP	P414173D272315A	DUP	3060A	7199	III
20-Sep-2011	SL-174-SA7-SB-1.0-2.0MS	P414173R272001B	MS	METHOD	9012B	III
20-Sep-2011	SL-174-SA7-SB-1.0-2.0MS	P414173R272218A	MS	3060A	7199	III
20-Sep-2011	SL-154-SA7-SB-0.0-1.0	6414172	N	3050B	6010B	III
20-Sep-2011	SL-154-SA7-SB-0.0-1.0	6414172	N	3050B	6020	III
20-Sep-2011	SL-154-SA7-SB-0.0-1.0	6414172	N	3060A	7199	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Sep-2011	SL-154-SA7-SB-0.0-1.0	6414172	N	3546	1625C	III
20-Sep-2011	SL-154-SA7-SB-0.0-1.0	6414172	N	3550B	8015B	III
20-Sep-2011	SL-154-SA7-SB-0.0-1.0	6414172	N	3550B	8015M	III
20-Sep-2011	SL-154-SA7-SB-0.0-1.0	6414172	N	3550B	8082	III
20-Sep-2011	SL-154-SA7-SB-0.0-1.0	6414172	N	3550B	8270C	III
20-Sep-2011	SL-154-SA7-SB-0.0-1.0	6414172	N	3550B	8270C SIM	III
20-Sep-2011	SL-154-SA7-SB-0.0-1.0	6414172	N	5035	8015M	III
20-Sep-2011	SL-154-SA7-SB-0.0-1.0	6414172	N	8330	8330A	III
20-Sep-2011	SL-154-SA7-SB-0.0-1.0	6414172	N	METHOD	300.0	III
20-Sep-2011	SL-154-SA7-SB-0.0-1.0	6414172	N	METHOD	314.0	III
20-Sep-2011	SL-154-SA7-SB-0.0-1.0	6414172	N	METHOD	7471A	III
20-Sep-2011	SL-154-SA7-SB-0.0-1.0	6414172	N	METHOD	8015B	III
20-Sep-2011	SL-154-SA7-SB-0.0-1.0	6414172	N	METHOD	8015M	III
20-Sep-2011	SL-154-SA7-SB-0.0-1.0	6414172	N	METHOD	8315A	III
20-Sep-2011	SL-154-SA7-SB-0.0-1.0	6414172	N	METHOD	9012B	III
20-Sep-2011	SL-149-SA7-SB-0.0-1.0	6414170	N	3050B	6010B	III
20-Sep-2011	SL-149-SA7-SB-0.0-1.0	6414170	N	3050B	6020	III
20-Sep-2011	SL-149-SA7-SB-0.0-1.0	6414170	N	3060A	7199	III
20-Sep-2011	SL-149-SA7-SB-0.0-1.0	6414170	N	3546	1625C	III
20-Sep-2011	SL-149-SA7-SB-0.0-1.0	6414170	N	3550B	8015B	III
20-Sep-2011	SL-149-SA7-SB-0.0-1.0	6414170	N	3550B	8015M	III
20-Sep-2011	SL-149-SA7-SB-0.0-1.0	6414170	N	3550B	8082	III
20-Sep-2011	SL-149-SA7-SB-0.0-1.0	6414170	N	3550B	8270C	III
20-Sep-2011	SL-149-SA7-SB-0.0-1.0	6414170	N	3550B	8270C SIM	III
20-Sep-2011	SL-149-SA7-SB-0.0-1.0	6414170	N	5035	8015M	III
20-Sep-2011	SL-149-SA7-SB-0.0-1.0	6414170	N	8330	8330A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Sep-2011	SL-149-SA7-SB-0.0-1.0	6414170	N	METHOD	300.0	III
20-Sep-2011	SL-149-SA7-SB-0.0-1.0	6414170	N	METHOD	314.0	III
20-Sep-2011	SL-149-SA7-SB-0.0-1.0	6414170	N	METHOD	7471A	III
20-Sep-2011	SL-149-SA7-SB-0.0-1.0	6414170	N	METHOD	8015B	III
20-Sep-2011	SL-149-SA7-SB-0.0-1.0	6414170	N	METHOD	8015M	III
20-Sep-2011	SL-149-SA7-SB-0.0-1.0	6414170	N	METHOD	8315A	III
20-Sep-2011	SL-149-SA7-SB-0.0-1.0	6414170	N	METHOD	9012B	III
20-Sep-2011	SL-149-SA7-SB-0.0-1.0MSD	P414170M260217	MSD	3550B	8270C	III
20-Sep-2011	SL-149-SA7-SB-0.0-1.0MS	P414170R260152	MS	3550B	8270C	III
20-Sep-2011	SL-150-SA7-SB-0.0-1.0	6414171	N	3050B	6010B	III
20-Sep-2011	SL-150-SA7-SB-0.0-1.0	6414171	N	3050B	6020	III
20-Sep-2011	SL-150-SA7-SB-0.0-1.0	6414171	N	3060A	7199	III
20-Sep-2011	SL-150-SA7-SB-0.0-1.0	6414171	N	3546	1625C	III
20-Sep-2011	SL-150-SA7-SB-0.0-1.0	6414171	N	3550B	8015B	III
20-Sep-2011	SL-150-SA7-SB-0.0-1.0	6414171	N	3550B	8015M	III
20-Sep-2011	SL-150-SA7-SB-0.0-1.0	6414171	N	3550B	8082	III
20-Sep-2011	SL-150-SA7-SB-0.0-1.0	6414171	N	3550B	8270C	III
20-Sep-2011	SL-150-SA7-SB-0.0-1.0	6414171	N	3550B	8270C SIM	III
20-Sep-2011	SL-150-SA7-SB-0.0-1.0	6414171	N	5035	8015M	III
20-Sep-2011	SL-150-SA7-SB-0.0-1.0	6414171	N	8330	8330A	III
20-Sep-2011	SL-150-SA7-SB-0.0-1.0	6414171	N	METHOD	300.0	III
20-Sep-2011	SL-150-SA7-SB-0.0-1.0	6414171	N	METHOD	314.0	III
20-Sep-2011	SL-150-SA7-SB-0.0-1.0	6414171	N	METHOD	7471A	III
20-Sep-2011	SL-150-SA7-SB-0.0-1.0	6414171	N	METHOD	8015B	III
20-Sep-2011	SL-150-SA7-SB-0.0-1.0	6414171	N	METHOD	8015M	III
20-Sep-2011	SL-150-SA7-SB-0.0-1.0	6414171	N	METHOD	8315A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Sep-2011	SL-150-SA7-SB-0.0-1.0	6414171	N	METHOD	9012B	III
20-Sep-2011	SL-059-SA7-SB-5.0-6.0	6414169	N	3050B	6010B	III
20-Sep-2011	SL-059-SA7-SB-5.0-6.0	6414169	N	3050B	6020	III
20-Sep-2011	SL-059-SA7-SB-5.0-6.0	6414169	N	3060A	7199	III
20-Sep-2011	SL-059-SA7-SB-5.0-6.0	6414169	N	3550B	8015B	III
20-Sep-2011	SL-059-SA7-SB-5.0-6.0	6414169	N	3550B	8015M	III
20-Sep-2011	SL-059-SA7-SB-5.0-6.0	6414169	N	3550B	8082	III
20-Sep-2011	SL-059-SA7-SB-5.0-6.0	6414169	N	3550B	8270C	III
20-Sep-2011	SL-059-SA7-SB-5.0-6.0	6414169	N	3550B	8270C SIM	III
20-Sep-2011	SL-059-SA7-SB-5.0-6.0	6414169	N	5035	8015M	III
20-Sep-2011	SL-059-SA7-SB-5.0-6.0	6414169	N	METHOD	300.0	III
20-Sep-2011	SL-059-SA7-SB-5.0-6.0	6414169	N	METHOD	314.0	III
20-Sep-2011	SL-059-SA7-SB-5.0-6.0	6414169	N	METHOD	7471A	III
20-Sep-2011	SL-059-SA7-SB-5.0-6.0	6414169	N	METHOD	8015B	III
20-Sep-2011	SL-059-SA7-SB-5.0-6.0	6414169	N	METHOD	8015M	III
20-Sep-2011	SL-059-SA7-SB-5.0-6.0	6414169	N	METHOD	9012B	III
20-Sep-2011	SL-059-SA7-SB-5.0-6.0MSD	P414169M320140A	MSD	3550B	8015M	III
20-Sep-2011	SL-059-SA7-SB-5.0-6.0MS	P414169R320116A	MS	3550B	8015M	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5	6414168	N	3050B	6010B	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5	6414168	N	3050B	6020	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5	6414168	N	3060A	7199	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5	6414168	N	3546	1625C	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5	6414168	N	3550B	8015B	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5	6414168	N	3550B	8015M	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5	6414168	N	3550B	8082	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5	6414168	N	3550B	8270C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Sep-2011	SL-058-SA7-SB-0.5-1.5	6414168	N	3550B	8270C SIM	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5	6414168	N	5035	8015M	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5	6414168	N	8330	8330A	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5	6414168	N	METHOD	300.0	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5	6414168	N	METHOD	314.0	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5	6414168	N	METHOD	7471A	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5	6414168	N	METHOD	8015B	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5	6414168	N	METHOD	8015M	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5	6414168	N	METHOD	8315A	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5	6414168	N	METHOD	9012B	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5DUP	P414168D220741A	DUP	3050B	6020	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5DUP	P414168D220741B	DUP	3050B	6020	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5DUP	P414168D220741C	DUP	3050B	6020	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5DUP	P414168D220741D	DUP	3050B	6020	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5DUP	P414168D220827	DUP	METHOD	7471A	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5DUP	P414168D220951	DUP	3050B	6010B	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5DUP	P414168D221242	DUP	3050B	6010B	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5DUP	P414168D271203A	DUP	METHOD	300.0	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5DUP	P414168D271716A	DUP	METHOD	314.0	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MSD	P414168M220747A	MSD	3050B	6020	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MSD	P414168M220747B	MSD	3050B	6020	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MSD	P414168M220747C	MSD	3050B	6020	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MSD	P414168M220747D	MSD	3050B	6020	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MSD	P414168M220829	MSD	METHOD	7471A	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MSD	P414168M220959	MSD	3050B	6010B	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MSD	P414168M221250	MSD	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MSD	P414168M240207A	MSD	8330	8330A	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MSD	P414168M241837A	MSD	3550B	8082	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MSD	P414168M260237	MSD	3550B	8270C SIM	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MSD	P414168M320310A	MSD	METHOD	8015B	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MS	P414168R220744A	MS	3050B	6020	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MS	P414168R220744B	MS	3050B	6020	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MS	P414168R220744C	MS	3050B	6020	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MS	P414168R220744D	MS	3050B	6020	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MS	P414168R220828	MS	METHOD	7471A	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MS	P414168R220955	MS	3050B	6010B	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MS	P414168R221246	MS	3050B	6010B	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MS	P414168R240124A	MS	8330	8330A	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MS	P414168R241818A	MS	3550B	8082	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MS	P414168R260204	MS	3550B	8270C SIM	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MS	P414168R271218A	MS	METHOD	300.0	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MS	P414168R271739A	MS	METHOD	314.0	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5MS	P414168R320255A	MS	METHOD	8015B	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE249

Laboratory: LL

EDD Filename: DE249_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-058-SA7-SB-0.5-1.5	Collected: 9/20/2011 2:40:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.1		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-059-SA7-SB-5.0-6.0	Collected: 9/20/2011 12:30:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.4		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-149-SA7-SB-0.0-1.0	Collected: 9/20/2011 11:05:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.84	U	0.84	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-150-SA7-SB-0.0-1.0	Collected: 9/20/2011 11:45:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-154-SA7-SB-0.0-1.0	Collected: 9/20/2011 10:30:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.7		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-174-SA7-SB-1.0-2.0	Collected: 9/20/2011 9:35:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.0		0.84	MDL	1.1	PQL	mg/Kg	J	Q

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-058-SA7-SB-0.5-1.5	Collected: 9/20/2011 2:40:00	Analysis Type: REA2	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1810		11.9	MDL	52.5	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/15/2012 11:23:19 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE249

Laboratory: LL

EDD Filename: DE249_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-058-SA7-SB-0.5-1.5 Collected: 9/20/2011 2:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.98	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.76	J	0.483	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: SL-059-SA7-SB-5.0-6.0 Collected: 9/20/2011 12:30:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1410		12.4	MDL	54.7	PQL	mg/Kg	J	Q

Sample ID: SL-059-SA7-SB-5.0-6.0 Collected: 9/20/2011 12:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.30	J	0.350	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.53	J	0.503	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-149-SA7-SB-0.0-1.0 Collected: 9/20/2011 11:05:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	87.0	J	5.95	MDL	100	PQL	mg/Kg	J	Z

Sample ID: SL-149-SA7-SB-0.0-1.0 Collected: 9/20/2011 11:05:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2500		11.3	MDL	50.0	PQL	mg/Kg	J	Q

Sample ID: SL-149-SA7-SB-0.0-1.0 Collected: 9/20/2011 11:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.79	J	0.320	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	2.17	J	0.460	MDL	5.00	PQL	mg/Kg	J	Z

Sample ID: SL-150-SA7-SB-0.0-1.0 Collected: 9/20/2011 11:45:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2380		11.5	MDL	50.7	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE249

Laboratory: LL

EDD Filename: DE249_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-150-SA7-SB-0.0-1.0 Collected: 9/20/2011 11:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.48	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	2.70	J	0.466	MDL	5.07	PQL	mg/Kg	J	Z

Sample ID: SL-154-SA7-SB-0.0-1.0 Collected: 9/20/2011 10:30:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2510		11.8	MDL	52.4	PQL	mg/Kg	J	Q

Sample ID: SL-154-SA7-SB-0.0-1.0 Collected: 9/20/2011 10:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.98	J	0.335	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.31	J	0.482	MDL	5.24	PQL	mg/Kg	J	Z

Sample ID: SL-174-SA7-SB-1.0-2.0 Collected: 9/20/2011 9:35:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2760		11.8	MDL	52.0	PQL	mg/Kg	J	Q

Sample ID: SL-174-SA7-SB-1.0-2.0 Collected: 9/20/2011 9:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.08	J	0.333	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.38	J	0.479	MDL	5.20	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-058-SA7-SB-0.5-1.5 Collected: 9/20/2011 2:40:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.191	J	0.0597	MDL	0.412	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE249

Laboratory: LL

EDD Filename: DE249_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-058-SA7-SB-0.5-1.5	Collected: 9/20/2011 2:40:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.450		0.0515	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-058-SA7-SB-0.5-1.5	Collected: 9/20/2011 2:40:00	Analysis Type: REA3	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	85.9		0.109	MDL	0.412	PQL	mg/Kg	J	A

Sample ID: SL-058-SA7-SB-0.5-1.5	Collected: 9/20/2011 2:40:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.120	J	0.0762	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	4.04		0.0824	MDL	0.412	PQL	mg/Kg	J	Q
BERYLLIUM	0.566		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CADMIUM	0.0544	J	0.0453	MDL	0.103	PQL	mg/Kg	J	Z, Q
CHROMIUM	16.1		0.124	MDL	0.412	PQL	mg/Kg	J	Q, A
COBALT	4.61		0.0206	MDL	0.103	PQL	mg/Kg	J	Q, A
COPPER	5.81		0.0824	MDL	0.412	PQL	mg/Kg	J	Q
LEAD	4.41		0.0105	MDL	0.206	PQL	mg/Kg	J	Q, E, A
NICKEL	8.91		0.103	MDL	0.412	PQL	mg/Kg	J	Q
SILVER	0.0201	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q
THALLIUM	0.210		0.0309	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	30.8		0.0227	MDL	0.103	PQL	mg/Kg	J	Q, A
ZINC	44.6		0.577	MDL	3.09	PQL	mg/Kg	J	E

Sample ID: SL-059-SA7-SB-5.0-6.0	Collected: 9/20/2011 12:30:00	Analysis Type: REA	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.271	J	0.0634	MDL	0.437	PQL	mg/Kg	J	Z, Q

Sample ID: SL-059-SA7-SB-5.0-6.0	Collected: 9/20/2011 12:30:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.813		0.0547	MDL	0.109	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE249

Laboratory: LL

EDD Filename: DE249_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-059-SA7-SB-5.0-6.0 Collected: 9/20/2011 12:30:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	52.1		0.116	MDL	0.437	PQL	mg/Kg	J	A

Sample ID: SL-059-SA7-SB-5.0-6.0 Collected: 9/20/2011 12:30:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.139	J	0.0809	MDL	0.219	PQL	mg/Kg	J	Z, Q
ARSENIC	6.53		0.0875	MDL	0.437	PQL	mg/Kg	J	Q
BERYLLIUM	0.534		0.0175	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	16.3		0.131	MDL	0.437	PQL	mg/Kg	J	Q, A
COBALT	6.70		0.0219	MDL	0.109	PQL	mg/Kg	J	Q, A
COPPER	5.35		0.0875	MDL	0.437	PQL	mg/Kg	J	Q
LEAD	4.91		0.0112	MDL	0.219	PQL	mg/Kg	J	Q, E, A
NICKEL	7.18		0.109	MDL	0.437	PQL	mg/Kg	J	Q
SILVER	0.0300	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.176		0.0328	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	38.4		0.0241	MDL	0.109	PQL	mg/Kg	J	Q, A
ZINC	35.9		0.612	MDL	3.28	PQL	mg/Kg	J	E

Sample ID: SL-149-SA7-SB-0.0-1.0 Collected: 9/20/2011 11:05:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0724	J	0.0580	MDL	0.400	PQL	mg/Kg	J	Z, Q

Sample ID: SL-149-SA7-SB-0.0-1.0 Collected: 9/20/2011 11:05:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.374		0.0500	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-149-SA7-SB-0.0-1.0 Collected: 9/20/2011 11:05:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	79.1		0.106	MDL	0.400	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE249

Laboratory: LL

EDD Filename: DE249_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-149-SA7-SB-0.0-1.0	Collected: 9/20/2011 11:05:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0887	J	0.0740	MDL	0.200	PQL	mg/Kg	J	Z, Q
ARSENIC	3.26		0.0800	MDL	0.400	PQL	mg/Kg	J	Q
BERYLLIUM	0.473		0.0160	MDL	0.100	PQL	mg/Kg	J	Q
CADMIUM	0.0643	J	0.0440	MDL	0.100	PQL	mg/Kg	J	Z, Q
CHROMIUM	16.6		0.120	MDL	0.400	PQL	mg/Kg	J	Q, A
COBALT	5.46		0.0200	MDL	0.100	PQL	mg/Kg	J	Q, A
COPPER	6.71		0.0800	MDL	0.400	PQL	mg/Kg	J	Q
LEAD	3.54		0.0102	MDL	0.200	PQL	mg/Kg	J	Q, E, A
NICKEL	10.2		0.100	MDL	0.400	PQL	mg/Kg	J	Q
SILVER	0.0166	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q
THALLIUM	0.219		0.0300	MDL	0.100	PQL	mg/Kg	J	Q
VANADIUM	31.9		0.0220	MDL	0.100	PQL	mg/Kg	J	Q, A
ZINC	57.9		0.560	MDL	3.00	PQL	mg/Kg	J	E

Sample ID: SL-150-SA7-SB-0.0-1.0	Collected: 9/20/2011 11:45:00	Analysis Type: REA	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.191	J	0.0588	MDL	0.405	PQL	mg/Kg	J	Z, Q

Sample ID: SL-150-SA7-SB-0.0-1.0	Collected: 9/20/2011 11:45:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.435		0.0507	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-150-SA7-SB-0.0-1.0	Collected: 9/20/2011 11:45:00	Analysis Type: REA3	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	76.9		0.107	MDL	0.405	PQL	mg/Kg	J	A

Sample ID: SL-150-SA7-SB-0.0-1.0	Collected: 9/20/2011 11:45:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.147	J	0.0750	MDL	0.203	PQL	mg/Kg	J	Z, Q
ARSENIC	4.41		0.0811	MDL	0.405	PQL	mg/Kg	J	Q
BERYLLIUM	0.554		0.0162	MDL	0.101	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE249

Laboratory: LL

EDD Filename: DE249_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
<i>Sample ID: SL-150-SA7-SB-0.0-1.0 Collected: 9/20/2011 11:45:00 Analysis Type: RES Dilution: 2</i>									
Analyte									
CADMIUM	0.124		0.0446	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	19.4		0.122	MDL	0.405	PQL	mg/Kg	J	Q, A
COBALT	5.40		0.0203	MDL	0.101	PQL	mg/Kg	J	Q, A
COPPER	7.24		0.0811	MDL	0.405	PQL	mg/Kg	J	Q
LEAD	5.85		0.0103	MDL	0.203	PQL	mg/Kg	J	Q, E, A
NICKEL	10.7		0.101	MDL	0.405	PQL	mg/Kg	J	Q
SILVER	0.0252	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.268		0.0304	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	37.0		0.0223	MDL	0.101	PQL	mg/Kg	J	Q, A
ZINC	65.6		0.568	MDL	3.04	PQL	mg/Kg	J	E

	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
<i>Sample ID: SL-154-SA7-SB-0.0-1.0 Collected: 9/20/2011 10:30:00 Analysis Type: REA Dilution: 2</i>									
Analyte									
SELENIUM	0.0706	J	0.0602	MDL	0.415	PQL	mg/Kg	J	Z, Q

	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
<i>Sample ID: SL-154-SA7-SB-0.0-1.0 Collected: 9/20/2011 10:30:00 Analysis Type: REA2 Dilution: 2</i>									
Analyte									
MOLYBDENUM	0.571		0.0519	MDL	0.104	PQL	mg/Kg	J	Q

	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
<i>Sample ID: SL-154-SA7-SB-0.0-1.0 Collected: 9/20/2011 10:30:00 Analysis Type: REA3 Dilution: 2</i>									
Analyte									
BARIUM	124		0.110	MDL	0.415	PQL	mg/Kg	J	A

	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
<i>Sample ID: SL-154-SA7-SB-0.0-1.0 Collected: 9/20/2011 10:30:00 Analysis Type: RES Dilution: 2</i>									
Analyte									
ANTIMONY	0.110	J	0.0768	MDL	0.208	PQL	mg/Kg	J	Z, Q
ARSENIC	4.38		0.0830	MDL	0.415	PQL	mg/Kg	J	Q
BERYLLIUM	0.569		0.0166	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.0995	J	0.0457	MDL	0.104	PQL	mg/Kg	J	Z, Q
CHROMIUM	20.7		0.125	MDL	0.415	PQL	mg/Kg	J	Q, A
COBALT	7.57		0.0208	MDL	0.104	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE249

Laboratory: LL

EDD Filename: DE249_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-154-SA7-SB-0.0-1.0 Collected: 9/20/2011 10:30:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	9.87		0.0830	MDL	0.415	PQL	mg/Kg	J	Q
LEAD	4.77		0.0106	MDL	0.208	PQL	mg/Kg	J	Q, E, A
NICKEL	14.1		0.104	MDL	0.415	PQL	mg/Kg	J	Q
THALLIUM	0.282		0.0311	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	41.6		0.0228	MDL	0.104	PQL	mg/Kg	J	Q, A
ZINC	75.3		0.581	MDL	3.11	PQL	mg/Kg	J	E

Sample ID: SL-174-SA7-SB-1.0-2.0 Collected: 9/20/2011 9:35:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.166	J	0.0616	MDL	0.425	PQL	mg/Kg	J	Z, Q

Sample ID: SL-174-SA7-SB-1.0-2.0 Collected: 9/20/2011 9:35:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.645		0.0531	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-174-SA7-SB-1.0-2.0 Collected: 9/20/2011 9:35:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	90.7		0.113	MDL	0.425	PQL	mg/Kg	J	A

Sample ID: SL-174-SA7-SB-1.0-2.0 Collected: 9/20/2011 9:35:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.153	J	0.0786	MDL	0.212	PQL	mg/Kg	J	Z, Q
ARSENIC	5.01		0.0849	MDL	0.425	PQL	mg/Kg	J	Q
BERYLLIUM	0.535		0.0170	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.140		0.0467	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	21.7		0.127	MDL	0.425	PQL	mg/Kg	J	Q, A
COBALT	7.82		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, A
COPPER	8.70		0.0849	MDL	0.425	PQL	mg/Kg	J	Q
LEAD	4.73		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, E, A
NICKEL	16.1		0.106	MDL	0.425	PQL	mg/Kg	J	Q
THALLIUM	0.311		0.0318	MDL	0.106	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE249

Laboratory: LL

EDD Filename: DE249_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-174-SA7-SB-1.0-2.0 Collected: 9/20/2011 9:35:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	45.1		0.0234	MDL	0.106	PQL	mg/Kg	J	Q, A
ZINC	68.1		0.594	MDL	3.18	PQL	mg/Kg	J	E

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-058-SA7-SB-0.5-1.5 Collected: 9/20/2011 2:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-058-SA7-SB-0.5-1.5 Collected: 9/20/2011 2:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0088	J	0.0073	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-059-SA7-SB-5.0-6.0 Collected: 9/20/2011 12:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0081	J	0.0075	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-150-SA7-SB-0.0-1.0 Collected: 9/20/2011 11:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0076	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE249

Laboratory: LL

EDD Filename: DE249_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-059-SA7-SB-5.0-6.0	Collected: 9/20/2011 12:30:00	Analysis Type: REA2	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.58	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C21-C30)	3.6		0.45	MDL	1.3	PQL	mg/Kg	J	Q

Sample ID: SL-149-SA7-SB-0.0-1.0	Collected: 9/20/2011 11:05:00	Analysis Type: REA2	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.52	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-150-SA7-SB-0.0-1.0	Collected: 9/20/2011 11:45:00	Analysis Type: REA2	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	1.1	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-174-SA7-SB-1.0-2.0	Collected: 9/20/2011 9:35:00	Analysis Type: REA2	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.94	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-150-SA7-SB-0.0-1.0	Collected: 9/20/2011 11:45:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.70	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-058-SA7-SB-0.5-1.5	Collected: 9/20/2011 2:40:00	Analysis Type: RES-ACID	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	350	U	350	MDL	1100	PQL	ug/Kg	R	L
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	530	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE249

Laboratory: LL

EDD Filename: DE249_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-059-SA7-SB-5.0-6.0 Collected: 9/20/2011 12:30:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	370	U	370	MDL	1100	PQL	ug/Kg	R	L
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	560	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	560	PQL	ug/Kg	UJ	L

Sample ID: SL-149-SA7-SB-0.0-1.0 Collected: 9/20/2011 11:05:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	R	Q, L
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	R	Q
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

Sample ID: SL-150-SA7-SB-0.0-1.0 Collected: 9/20/2011 11:45:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	R	L
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

Sample ID: SL-154-SA7-SB-0.0-1.0 Collected: 9/20/2011 10:30:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	350	U	350	MDL	1000	PQL	ug/Kg	R	L
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-174-SA7-SB-1.0-2.0 Collected: 9/20/2011 9:35:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	350	U	350	MDL	1000	PQL	ug/Kg	R	L
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE249

Laboratory: LL

EDD Filename: DE249_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8270C SIM **Matrix:** SO

Sample ID: SL-058-SA7-SB-0.5-1.5 **Collected:** 9/20/2011 2:40:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	1.2	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-059-SA7-SB-5.0-6.0 **Collected:** 9/20/2011 12:30:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	1.7	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-150-SA7-SB-0.0-1.0 **Collected:** 9/20/2011 11:45:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.81	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.5	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.1	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.74	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE249

Laboratory: LL

EDD Filename: DE249_v1.

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE249

Laboratory: LL

EDD Filename: DE249_v1.

eQAPP Name: CDM_SSFL_110509

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE249

Laboratory: LL

EDD Filename: DE249_v1.

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE249

Method Blank Outlier Report

Lab Reporting Batch ID: DE249

Laboratory: LL

EDD Filename: DE249_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P26908GB221223	9/30/2011 12:23:00 PM	MAGNESIUM	0.522 mg/Kg	SL-058-SA7-SB-0.5-1.5 SL-059-SA7-SB-5.0-6.0 SL-149-SA7-SB-0.0-1.0 SL-150-SA7-SB-0.0-1.0 SL-154-SA7-SB-0.0-1.0 SL-174-SA7-SB-1.0-2.0
P26908GB221638	9/29/2011 4:38:00 PM	CALCIUM	6.45 mg/Kg	SL-058-SA7-SB-0.5-1.5 SL-059-SA7-SB-5.0-6.0 SL-149-SA7-SB-0.0-1.0 SL-150-SA7-SB-0.0-1.0 SL-154-SA7-SB-0.0-1.0 SL-174-SA7-SB-1.0-2.0
P26908GB221803	9/28/2011 6:03:00 PM	PHOSPHORUS STRONTIUM TIN	1.28 mg/Kg 0.0340 mg/Kg 1.49 mg/Kg	SL-058-SA7-SB-0.5-1.5 SL-059-SA7-SB-5.0-6.0 SL-149-SA7-SB-0.0-1.0 SL-150-SA7-SB-0.0-1.0 SL-154-SA7-SB-0.0-1.0 SL-174-SA7-SB-1.0-2.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-058-SA7-SB-0.5-1.5(RES)	TIN	2.98 mg/Kg	2.98U mg/Kg
SL-059-SA7-SB-5.0-6.0(RES)	TIN	3.30 mg/Kg	3.30U mg/Kg
SL-149-SA7-SB-0.0-1.0(RES)	TIN	2.79 mg/Kg	2.79U mg/Kg
SL-150-SA7-SB-0.0-1.0(RES)	TIN	3.48 mg/Kg	3.48U mg/Kg
SL-154-SA7-SB-0.0-1.0(RES)	TIN	2.98 mg/Kg	2.98U mg/Kg
SL-174-SA7-SB-1.0-2.0(RES)	TIN	3.08 mg/Kg	3.08U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE249

Laboratory: LL

EDD Filename: DE249_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-058-SA7-SB-0.5-1.5MS SL-058-SA7-SB-0.5-1.5MSD (SL-058-SA7-SB-0.5-1.5 SL-059-SA7-SB-5.0-6.0 SL-149-SA7-SB-0.0-1.0 SL-150-SA7-SB-0.0-1.0 SL-154-SA7-SB-0.0-1.0 SL-174-SA7-SB-1.0-2.0)	BARIUM	256	272	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-058-SA7-SB-0.5-1.5MS SL-058-SA7-SB-0.5-1.5MSD (SL-058-SA7-SB-0.5-1.5 SL-059-SA7-SB-5.0-6.0 SL-149-SA7-SB-0.0-1.0 SL-150-SA7-SB-0.0-1.0 SL-154-SA7-SB-0.0-1.0 SL-174-SA7-SB-1.0-2.0)	ALUMINUM CALCIUM MAGNESIUM MANGANESE POTASSIUM TITANIUM	1678 148 232 195 131 316	1794 166 333 - 143 373	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - -	ALUMINUM CALCIUM MAGNESIUM MANGANESE POTASSIUM TITANIUM	J(all detects) Al, Ca, Mg, Mn, Ti, No Qual, >4x

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-149-SA7-SB-0.0-1.0MSD (SL-149-SA7-SB-0.0-1.0)	BENZOIC ACID	-	-	10.00-173.00	43 (30.00)	BENZOIC ACID	J(all detects)
SL-149-SA7-SB-0.0-1.0MS SL-149-SA7-SB-0.0-1.0MSD (SL-149-SA7-SB-0.0-1.0)	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHENOL	0 -	0 0	20.00-143.00 11.00-126.00	- 200 (30.00)	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHEN	J(all detects) R(all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-058-SA7-SB-0.5-1.5MS (SL-058-SA7-SB-0.5-1.5 SL-059-SA7-SB-5.0-6.0 SL-149-SA7-SB-0.0-1.0 SL-150-SA7-SB-0.0-1.0 SL-154-SA7-SB-0.0-1.0 SL-174-SA7-SB-1.0-2.0)	FLUORIDE	66	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE249

Laboratory: LL

EDD Filename: DE249_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-058-SA7-SB-0.5-1.5MS SL-058-SA7-SB-0.5-1.5MSD (SL-058-SA7-SB-0.5-1.5 SL-059-SA7-SB-5.0-6.0 SL-149-SA7-SB-0.0-1.0 SL-150-SA7-SB-0.0-1.0 SL-154-SA7-SB-0.0-1.0 SL-174-SA7-SB-1.0-2.0)	IRON	1258	610	75.00-125.00	-	IRON	No Qual, >4x

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE249

Laboratory: LL

EDD Filename: DE249_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P26908GQ221227 P26908GQ221642 P26908GQ221807 (SL-058-SA7-SB-0.5-1.5 SL-059-SA7-SB-5.0-6.0 SL-149-SA7-SB-0.0-1.0 SL-150-SA7-SB-0.0-1.0 SL-154-SA7-SB-0.0-1.0 SL-174-SA7-SB-1.0-2.0)	ALUMINUM MAGNESIUM POTASSIUM SODIUM	156 136 127 125	- - - -	80.00-120.00 80.00-120.00 80.00-120.00 80.00-120.00	- - - -	ALUMINUM MAGNESIUM POTASSIUM SODIUM	No Qual, SRM within QC Limits

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P1LALCSQ260037 (SL-058-SA7-SB-0.5-1.5 SL-059-SA7-SB-5.0-6.0 SL-149-SA7-SB-0.0-1.0 SL-150-SA7-SB-0.0-1.0 SL-154-SA7-SB-0.0-1.0 SL-174-SA7-SB-1.0-2.0)	2,4-DINITROPHENOL	0	-	18.00-133.00	-	2,4-DINITROPHENOL	J(all detects) R(all non-detects)
P1LALCSQ260037 (SL-058-SA7-SB-0.5-1.5 SL-059-SA7-SB-5.0-6.0 SL-149-SA7-SB-0.0-1.0 SL-150-SA7-SB-0.0-1.0 SL-154-SA7-SB-0.0-1.0 SL-174-SA7-SB-1.0-2.0)	4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID	10 14	- -	46.00-120.00 62.00-113.00	- -	4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P27608AQ220938 (SL-058-SA7-SB-0.5-1.5 SL-059-SA7-SB-5.0-6.0 SL-149-SA7-SB-0.0-1.0 SL-150-SA7-SB-0.0-1.0 SL-154-SA7-SB-0.0-1.0 SL-174-SA7-SB-1.0-2.0)	IRON	134	-	80.00-120.00	-	IRON	No Qual, SRM within QC Limits

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE249

Laboratory: LL

EDD Filename: DE249_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-058-SA7-SB-0.5-1.5DUP (SL-058-SA7-SB-0.5-1.5 SL -059-SA7-SB-5.0-6.0 SL -149-SA7-SB-0.0-1.0 SL -150-SA7-SB-0.0-1.0 SL -154-SA7-SB-0.0-1.0 SL -174-SA7-SB-1.0-2.0)	Zirconium	28	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-058-SA7-SB-0.5-1.5DUP (SL-058-SA7-SB-0.5-1.5 SL -059-SA7-SB-5.0-6.0 SL -149-SA7-SB-0.0-1.0 SL -150-SA7-SB-0.0-1.0 SL -154-SA7-SB-0.0-1.0 SL -174-SA7-SB-1.0-2.0)	LEAD ZINC	22 21	20.00 20.00	J(all detects) UJ(all non-detects)

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-058-SA7-SB-0.5-1.5DUP (SL-058-SA7-SB-0.5-1.5 SL -059-SA7-SB-5.0-6.0 SL -149-SA7-SB-0.0-1.0 SL -150-SA7-SB-0.0-1.0 SL -154-SA7-SB-0.0-1.0 SL -174-SA7-SB-1.0-2.0)	MERCURY	200	20.00	No Qual, OK by Difference

Reporting Limit Outliers

Lab Reporting Batch ID: DE249

Laboratory: LL

EDD Filename: DE249_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-058-SA7-SB-0.5-1.5	TIN Zirconium	J	2.98	10.5	PQL	mg/Kg	J (all detects)
		J	2.76	5.25	PQL	mg/Kg	
SL-059-SA7-SB-5.0-6.0	TIN Zirconium	J	3.30	10.9	PQL	mg/Kg	J (all detects)
		J	3.53	5.47	PQL	mg/Kg	
SL-149-SA7-SB-0.0-1.0	SODIUM TIN Zirconium	J	87.0	100	PQL	mg/Kg	J (all detects)
		J	2.79	10.0	PQL	mg/Kg	
		J	2.17	5.00	PQL	mg/Kg	
SL-150-SA7-SB-0.0-1.0	TIN Zirconium	J	3.48	10.1	PQL	mg/Kg	J (all detects)
		J	2.70	5.07	PQL	mg/Kg	
SL-154-SA7-SB-0.0-1.0	TIN Zirconium	J	2.98	10.5	PQL	mg/Kg	J (all detects)
		J	2.31	5.24	PQL	mg/Kg	
SL-174-SA7-SB-1.0-2.0	TIN Zirconium	J	3.08	10.4	PQL	mg/Kg	J (all detects)
		J	2.38	5.20	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-058-SA7-SB-0.5-1.5	ANTIMONY CADMIUM SELENIUM SILVER	J	0.120	0.206	PQL	mg/Kg	J (all detects)
		J	0.0544	0.103	PQL	mg/Kg	
		J	0.191	0.412	PQL	mg/Kg	
		J	0.0201	0.103	PQL	mg/Kg	
SL-059-SA7-SB-5.0-6.0	ANTIMONY SELENIUM SILVER	J	0.139	0.219	PQL	mg/Kg	J (all detects)
		J	0.271	0.437	PQL	mg/Kg	
		J	0.0300	0.109	PQL	mg/Kg	
SL-149-SA7-SB-0.0-1.0	ANTIMONY CADMIUM SELENIUM SILVER	J	0.0887	0.200	PQL	mg/Kg	J (all detects)
		J	0.0643	0.100	PQL	mg/Kg	
		J	0.0724	0.400	PQL	mg/Kg	
		J	0.0166	0.100	PQL	mg/Kg	
SL-150-SA7-SB-0.0-1.0	ANTIMONY SELENIUM SILVER	J	0.147	0.203	PQL	mg/Kg	J (all detects)
		J	0.191	0.405	PQL	mg/Kg	
		J	0.0252	0.101	PQL	mg/Kg	
SL-154-SA7-SB-0.0-1.0	ANTIMONY CADMIUM SELENIUM	J	0.110	0.208	PQL	mg/Kg	J (all detects)
		J	0.0995	0.104	PQL	mg/Kg	
		J	0.0706	0.415	PQL	mg/Kg	
SL-174-SA7-SB-1.0-2.0	ANTIMONY SELENIUM	J	0.153	0.212	PQL	mg/Kg	J (all detects)
		J	0.166	0.425	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-058-SA7-SB-0.5-1.5	HEXAVALENT CHROMIUM	J	0.26	1.1	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE249

Laboratory: LL

EDD Filename: DE249_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-058-SA7-SB-0.5-1.5	MERCURY	J	0.0088	0.103	PQL	mg/Kg	J (all detects)
SL-059-SA7-SB-5.0-6.0	MERCURY	J	0.0081	0.106	PQL	mg/Kg	J (all detects)
SL-150-SA7-SB-0.0-1.0	MERCURY	J	0.0076	0.102	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-059-SA7-SB-5.0-6.0	EFH (C15-C20)	J	0.58	1.3	PQL	mg/Kg	J (all detects)
SL-149-SA7-SB-0.0-1.0	EFH (C15-C20)	J	0.52	1.2	PQL	mg/Kg	J (all detects)
SL-150-SA7-SB-0.0-1.0	EFH (C15-C20)	J	1.1	1.2	PQL	mg/Kg	J (all detects)
SL-174-SA7-SB-1.0-2.0	EFH (C30-C40)	J	0.94	1.3	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-150-SA7-SB-0.0-1.0	AROCLOR 1254	J	0.70	1.7	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-058-SA7-SB-0.5-1.5	CHRYSENE	J	1.2	1.8	PQL	ug/Kg	J (all detects)
SL-059-SA7-SB-5.0-6.0	2-METHYLNAPHTHALENE	J	1.7	1.9	PQL	ug/Kg	J (all detects)
SL-150-SA7-SB-0.0-1.0	BENZO(A)PYRENE	J	0.81	1.7	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.5	1.7	PQL	ug/Kg	
	CHRYSENE	J	1.1	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.74	1.7	PQL	ug/Kg	
	PYRENE	J	1.3	1.7	PQL	ug/Kg	

LDC #: 26859S4

VALIDATION COMPLETENESS WORKSHEET

Date: 12/30/11

SDG #: DE249

ADR

Page: 1 of 1

Laboratory: Lancaster Laboratories

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	No find by 2003/03
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Mn, Ti, Zn 74X
VII.	Duplicate Sample Analysis	SW	Hg, Pb 25X
VIII.	Laboratory Control Samples (LCS)	NA	SKM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Cr, Co, Pb, V, J/uJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: 501

1	SL-058-SA7-SB-0.5-1.5	11	*	21		31	
2	SL-059-SA7-SB-5.0-6.0	12		22		32	
3	SL-149-SA7-SB-0.0-1.0	13		23		33	
4	SL-150-SA7-SB-0.0-1.0	14		24		34	
5	SL-154-SA7-SB-0.0-1.0	15		25		35	
6	SL-174-SA7-SB-1.0-2.0	16		26		36	
7	IM7	17		27		37	
8	IM7	18		28		38	
9	IM7	19		29		39	
10		20		30		40	

Notes: _____



QUALITY ASSURANCE SUMMARY
 FORM 5A (MS/MSD)
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE
 SDG No.: DE249
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6414168BKG Matrix Spike Lab Sample ID: 6414168MS Matrix Spike Duplicate Lab Sample ID: 6414168MSD
 & Solids for Sample: 94.3
 Batch Id(s): P26908G, P26926B, P27608A, P26911D

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MS Spike Added	MSD Spike Added	Units	MS		MSD		Control Limit	
		Result	C	Result	C	Result	C				%R	Q	%R	Q	%R	RPD
Aluminum	121	12760.8748		16249.2639		16491.7951		207.9305	207.9305	MG/KG	1678	1794	1	74	75-125	20P
Antimony	75	0.1203	B	0.9590		1.0299		1.2476	1.2476	MG/KG	67N	73N	7	75-125	20MS	
Arsenic	137	4.0441		8.5938		8.8100		2.0793	2.0793	MG/KG	219N	229N	2	75-125	20MS	
Barium	9	85.9064		112.5112		114.1746		10.3965	10.3965	MG/KG	256	272	1	74	75-125	20MS
Beryllium	111	0.5663		1.8940		1.8770		0.8317	0.8317	MG/KG	160N	158N	1	84-115	20MS	
Boron	107	0.3780	U	200.7839		201.3567		207.9305	207.9305	MG/KG	97	97	0	75-125	20P	
Cadmium	52	0.0544	B	1.5158		1.6861		1.0397	1.0397	MG/KG	141N	157N	11	75-125	20MS	
Calcium	63	2730.4295		3345.9204		3421.3472		415.8609	415.8609	MG/KG	148	166	2	74	75-125	20P
Chromium	59	16.0632		33.4768		34.6620		10.3965	10.3965	MG/KG	167N	179N	3	75-125	20MS	
Cobalt	60	4.6104		79.4918		85.8753		51.9826	51.9826	MG/KG	144N	156N	8	75-125	20MS	
Copper	208	5.8088		23.5377		25.1804		10.3965	10.3965	MG/KG	171N	186N	7	75-125	20MS	
Iron	208	20206.2348		21513.7515		20840.5080		103.9652	103.9652	MG/KG	1258	610	3	74	75-125	20P
Lead	208	4.4065		10.7063		11.2158		3.1190	3.1190	MG/KG	202N	218N	5	75-125	20MS	
Lithium	60	20.2115		120.4863		122.7372		103.9652	103.9652	MG/KG	96	99	2	82-114	20P	
Magnesium	60	4507.4242		4989.8800		5199.5342		207.9305	207.9305	MG/KG	232	333	4	74	75-125	20P
Manganese	60	237.8778		338.9953		290.4622		51.9826	51.9826	MG/KG	195	101	15	74	75-125	20P
Mercury	98	0.0088	B	0.1660		0.1667		0.1710	0.1710	MG/KG	92	93	0	65-135	20CV	
Molybdenum	60	0.4501		16.1604		17.1605		10.3965	10.3965	MG/KG	151N	161N	6	75-125	20MS	
Nickel	60	8.9077		28.4241		29.6301		10.3965	10.3965	MG/KG	188N	199N	4	75-125	20MS	
Phosphorus	60	240.1363		354.4539		366.1832		103.9652	103.9652	MG/KG	110	121	3	75-125	20P	
Potassium	78	1805.3999		3170.2597		3288.7406		1039.6523	1039.6523	MG/KG	131N	143N	4	75-125	20P	
Selenium	107	0.1906	B	2.8507		3.3186		2.0793	2.0793	MG/KG	128N	150N	15	75-125	20MS	
Silver	107	0.0201	B	14.9024		15.8693		10.3965	10.3965	MG/KG	143N	152N	6	75-125	20MS	
Sodium	203	134.0602		1181.3310		1175.6046		1039.6523	1039.6523	MG/KG	101	100	0	75-125	20P	
Strontium	203	12.8450		113.8232		114.2703		103.9652	103.9652	MG/KG	97	98	0	75-115	20P	
Thallium	203	0.2104		0.8962		0.9184		0.4159	0.4159	MG/KG	165N	170N	2	75-125	20MS	
Tin	203	2.9755	B	372.5532		370.3761		415.8609	415.8609	MG/KG	89	88	1	80-110	20P	
Titanium	51	1137.0631		1465.2756		1524.7708		103.9652	103.9652	MG/KG	316	373	4	74	75-125	20P
Vanadium	66	30.8456		54.1451		56.8690		10.3965	10.3965	MG/KG	224N	250N	5	75-125	20MS	
Zinc	66	44.6211		81.2176		85.7089		10.3965	10.3965	MG/KG	352	395	5	74	75-125	20MS
Zirconium	96	2.7624	B	100.4980		102.2207		103.9652	103.9652	MG/KG	94	96	2	75-125	20P	

METHODS: P = ICP Atomic Emission Spectrometer CV = Cold Vapor MS = ICP Mass Spectrometry
 CONCENTRATION QUALIFIERS: U = Below MDL, B = Below LOQ
 FLAGS: N = Matrix Spike OOS, * = Duplicate OOS



QUALITY ASSURANCE SUMMARY

FORM 6

DUPLICATES

SDG No.: DE249

Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6414168BKG

Duplicate Lab Sample ID: 6414168DUP

% Solids for Duplicate: 94.3

% Solids for Sample: 94.3

Batch ID(s): P26908G, P26926B, P27608A, P26911D

Concentration Units: MG/KG

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			12760.8748		14217.9551		11		P
Antimony	121		0.1203	B	0.1184	B	2		MS
Arsenic	75		4.0441		4.7325		16		MS
Barium	137		85.9064		77.7660		10		MS
Beryllium	9		0.5663		0.6367		12		MS
Boron			0.3780	U	0.3780	U			P
Cadmium	111		0.0544	B	0.0501	B	8		MS
Calcium			2730.4295		2915.6389		7		P
Chromium	52		16.0632		17.6782		10		MS
Cobalt	59		4.6104		5.6016		19		MS
Copper	63		5.8088		7.0280		19		MS
Iron			20206.2348		18930.4639		7		P
Lead	208		4.4065		5.5060		22	*	MS
Lithium			20.2115		22.4268		10		P
Magnesium			4507.4242		4912.6120		9		P
Manganese			237.8778		268.7064		12		P
Mercury			0.0088	B	0.0075	U	200		CV
Molybdenum	98	0.1	0.4501		0.5242		15		MS
Nickel	60		8.9077		10.3466		15		MS
Phosphorus			240.1363		275.0071		14		P
Potassium			1805.3999		1976.8203		9		P
Selenium	78		0.1906	B	0.1959	B	3		MS
Silver	107		0.0201	B	0.0242	B	19		MS
Sodium		105.0	134.0602		141.6703		6		P
Strontium			12.8450		13.8960		8		P
Thallium	203	0.1	0.2104		0.2501		17		MS
Tin			2.9755	B	3.0469	B	2		P
Titanium			1137.0631		1244.4022		9		P
Vanadium	51		30.8456		35.6601		14		MS
Zinc	66		44.6211		55.3511		21	*	MS
Zirconium			2.7624	B	3.6643	B	28		P

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

DE249 2344

<p>METHODS:</p> <p>P = ICP Atomic Emission Spectrometer</p> <p>MS = ICP Mass Spectrometry</p> <p>CV = Cold Vapor</p> <p>AF = Cold Vapor Atomic Fluorescence</p>	<p>CONCENTRATION QUALIFIERS:</p> <p>U= Below MDL</p> <p>B= Below LOQ</p> <p>FLAGS:</p> <p>* = Duplicate Out of Spec</p>
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SAMPLE DELIVERY GROUP

DE250

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Sep-2011	SL-143-SA7-SS-0.0-0.5	6417437	N	3050B	6010B	III
21-Sep-2011	SL-143-SA7-SS-0.0-0.5	6417437	N	3050B	6020	III
21-Sep-2011	SL-143-SA7-SS-0.0-0.5	6417437	N	3060A	7199	III
21-Sep-2011	SL-143-SA7-SS-0.0-0.5	6417437	N	3550B	8015B	III
21-Sep-2011	SL-143-SA7-SS-0.0-0.5	6417437	N	3550B	8015M	III
21-Sep-2011	SL-143-SA7-SS-0.0-0.5	6417437	N	3550B	8081A	III
21-Sep-2011	SL-143-SA7-SS-0.0-0.5	6417437	N	3550B	8082	III
21-Sep-2011	SL-143-SA7-SS-0.0-0.5	6417437	N	3550B	8151A	III
21-Sep-2011	SL-143-SA7-SS-0.0-0.5	6417437	N	3550B	8270C	III
21-Sep-2011	SL-143-SA7-SS-0.0-0.5	6417437	N	3550B	8270C SIM	III
21-Sep-2011	SL-143-SA7-SS-0.0-0.5	6417437	N	METHOD	300.0	III
21-Sep-2011	SL-143-SA7-SS-0.0-0.5	6417437	N	METHOD	314.0	III
21-Sep-2011	SL-143-SA7-SS-0.0-0.5	6417437	N	METHOD	6850	III
21-Sep-2011	SL-143-SA7-SS-0.0-0.5	6417437	N	METHOD	7471A	III
21-Sep-2011	SL-143-SA7-SS-0.0-0.5	6417437	N	METHOD	8015B	III
21-Sep-2011	SL-143-SA7-SS-0.0-0.5	6417437	N	METHOD	8015M	III
21-Sep-2011	SL-143-SA7-SS-0.0-0.5	6417437	N	METHOD	9012B	III
21-Sep-2011	SL-142-SA7-SS-0.0-0.5	6417436	N	3050B	6010B	III
21-Sep-2011	SL-142-SA7-SS-0.0-0.5	6417436	N	3050B	6020	III
21-Sep-2011	SL-142-SA7-SS-0.0-0.5	6417436	N	3060A	7199	III
21-Sep-2011	SL-142-SA7-SS-0.0-0.5	6417436	N	3550B	8015B	III
21-Sep-2011	SL-142-SA7-SS-0.0-0.5	6417436	N	3550B	8015M	III
21-Sep-2011	SL-142-SA7-SS-0.0-0.5	6417436	N	3550B	8081A	III
21-Sep-2011	SL-142-SA7-SS-0.0-0.5	6417436	N	3550B	8082	III
21-Sep-2011	SL-142-SA7-SS-0.0-0.5	6417436	N	3550B	8151A	III
21-Sep-2011	SL-142-SA7-SS-0.0-0.5	6417436	N	3550B	8270C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Sep-2011	SL-001-SA7-SS-0.0-0.5	6415776	N	3050B	6010B	III
21-Sep-2011	SL-001-SA7-SS-0.0-0.5	6415776	N	3050B	6020	III
21-Sep-2011	SL-001-SA7-SS-0.0-0.5	6415776	N	3060A	7199	III
21-Sep-2011	SL-001-SA7-SS-0.0-0.5	6415776	N	3550B	8081A	III
21-Sep-2011	SL-001-SA7-SS-0.0-0.5	6415776	N	3550B	8082	III
21-Sep-2011	SL-001-SA7-SS-0.0-0.5	6415776	N	3550B	8151A	III
21-Sep-2011	SL-001-SA7-SS-0.0-0.5	6415776	N	3550B	8270C	III
21-Sep-2011	SL-001-SA7-SS-0.0-0.5	6415776	N	3550B	8270C SIM	III
21-Sep-2011	SL-001-SA7-SS-0.0-0.5	6415776	N	METHOD	300.0	III
21-Sep-2011	SL-001-SA7-SS-0.0-0.5	6415776	N	METHOD	314.0	III
21-Sep-2011	SL-001-SA7-SS-0.0-0.5	6415776	N	METHOD	7471A	III
21-Sep-2011	TB-092111	6415797	TB	5030B	8015M	III
21-Sep-2011	SL-057-SA7-SB-3.0-4.0	6415791	N	3050B	6010B	III
21-Sep-2011	SL-057-SA7-SB-3.0-4.0	6415791	N	3050B	6020	III
21-Sep-2011	SL-057-SA7-SB-3.0-4.0	6415791	N	3060A	7199	III
21-Sep-2011	SL-057-SA7-SB-3.0-4.0	6415791	N	3546	1625C	III
21-Sep-2011	SL-057-SA7-SB-3.0-4.0	6415791	N	3550B	8015B	III
21-Sep-2011	SL-057-SA7-SB-3.0-4.0	6415791	N	3550B	8015M	III
21-Sep-2011	SL-057-SA7-SB-3.0-4.0	6415791	N	3550B	8082	III
21-Sep-2011	SL-057-SA7-SB-3.0-4.0	6415791	N	3550B	8270C	III
21-Sep-2011	SL-057-SA7-SB-3.0-4.0	6415791	N	3550B	8270C SIM	III
21-Sep-2011	SL-057-SA7-SB-3.0-4.0	6415791	N	5035	8015M	III
21-Sep-2011	SL-057-SA7-SB-3.0-4.0	6415791	N	8330	8330A	III
21-Sep-2011	SL-057-SA7-SB-3.0-4.0	6415791	N	Gen Prep	300.0	III
21-Sep-2011	SL-057-SA7-SB-3.0-4.0	6415791	N	METHOD	300.0	III
21-Sep-2011	SL-057-SA7-SB-3.0-4.0	6415791	N	METHOD	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Sep-2011	SL-057-SA7-SB-3.0-4.0	6415791	N	METHOD	7471A	III
21-Sep-2011	SL-057-SA7-SB-3.0-4.0	6415791	N	METHOD	8015B	III
21-Sep-2011	SL-057-SA7-SB-3.0-4.0	6415791	N	METHOD	8015M	III
21-Sep-2011	SL-057-SA7-SB-3.0-4.0	6415791	N	METHOD	8315A	III
21-Sep-2011	SL-057-SA7-SB-3.0-4.0	6415791	N	METHOD	9012B	III
21-Sep-2011	SL-057-SA7-SB-3.0-4.0DUP	P415791D270357B	DUP	Gen Prep	300.0	III
21-Sep-2011	SL-057-SA7-SB-3.0-4.0DUP	P415791D270357B	DUP	METHOD	300.0	III
21-Sep-2011	SL-057-SA7-SB-3.0-4.0MS	P415791R270412B	MS	Gen Prep	300.0	III
21-Sep-2011	SL-057-SA7-SB-3.0-4.0MS	P415791R270412B	MS	METHOD	300.0	III
21-Sep-2011	SL-124-SA7-SS-0.0-0.5	6415787	N	3050B	6010B	III
21-Sep-2011	SL-124-SA7-SS-0.0-0.5	6415787	N	3050B	6020	III
21-Sep-2011	SL-124-SA7-SS-0.0-0.5	6415787	N	3060A	7199	III
21-Sep-2011	SL-124-SA7-SS-0.0-0.5	6415787	N	3550B	8081A	III
21-Sep-2011	SL-124-SA7-SS-0.0-0.5	6415787	N	3550B	8082	III
21-Sep-2011	SL-124-SA7-SS-0.0-0.5	6415787	N	3550B	8151A	III
21-Sep-2011	SL-124-SA7-SS-0.0-0.5	6415787	N	3550B	8270C	III
21-Sep-2011	SL-124-SA7-SS-0.0-0.5	6415787	N	3550B	8270C SIM	III
21-Sep-2011	SL-124-SA7-SS-0.0-0.5	6415787	N	METHOD	300.0	III
21-Sep-2011	SL-124-SA7-SS-0.0-0.5	6415787	N	METHOD	314.0	III
21-Sep-2011	SL-124-SA7-SS-0.0-0.5	6415787	N	METHOD	7471A	III
21-Sep-2011	SL-123-SA7-SS-0.0-0.5	6415786	N	3050B	6010B	III
21-Sep-2011	SL-123-SA7-SS-0.0-0.5	6415786	N	3050B	6020	III
21-Sep-2011	SL-123-SA7-SS-0.0-0.5	6415786	N	3060A	7199	III
21-Sep-2011	SL-123-SA7-SS-0.0-0.5	6415786	N	3550B	8015B	III
21-Sep-2011	SL-123-SA7-SS-0.0-0.5	6415786	N	3550B	8015M	III
21-Sep-2011	SL-123-SA7-SS-0.0-0.5	6415786	N	3550B	8081A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Sep-2011	SL-123-SA7-SS-0.0-0.5	6415786	N	3550B	8082	III
21-Sep-2011	SL-123-SA7-SS-0.0-0.5	6415786	N	3550B	8151A	III
21-Sep-2011	SL-123-SA7-SS-0.0-0.5	6415786	N	3550B	8270C	III
21-Sep-2011	SL-123-SA7-SS-0.0-0.5	6415786	N	3550B	8270C SIM	III
21-Sep-2011	SL-123-SA7-SS-0.0-0.5	6415786	N	METHOD	300.0	III
21-Sep-2011	SL-123-SA7-SS-0.0-0.5	6415786	N	METHOD	314.0	III
21-Sep-2011	SL-123-SA7-SS-0.0-0.5	6415786	N	METHOD	6850	III
21-Sep-2011	SL-123-SA7-SS-0.0-0.5	6415786	N	METHOD	7471A	III
21-Sep-2011	SL-123-SA7-SS-0.0-0.5	6415786	N	METHOD	8015B	III
21-Sep-2011	SL-123-SA7-SS-0.0-0.5	6415786	N	METHOD	8015M	III
21-Sep-2011	SL-123-SA7-SS-0.0-0.5	6415786	N	METHOD	9012B	III
21-Sep-2011	SL-056-SA7-SB-4.0-5.0	6415790	N	3050B	6010B	III
21-Sep-2011	SL-056-SA7-SB-4.0-5.0	6415790	N	3050B	6020	III
21-Sep-2011	SL-056-SA7-SB-4.0-5.0	6415790	N	3060A	7199	III
21-Sep-2011	SL-056-SA7-SB-4.0-5.0	6415790	N	3546	1625C	III
21-Sep-2011	SL-056-SA7-SB-4.0-5.0	6415790	N	3550B	8015B	III
21-Sep-2011	SL-056-SA7-SB-4.0-5.0	6415790	N	3550B	8015M	III
21-Sep-2011	SL-056-SA7-SB-4.0-5.0	6415790	N	3550B	8082	III
21-Sep-2011	SL-056-SA7-SB-4.0-5.0	6415790	N	3550B	8270C	III
21-Sep-2011	SL-056-SA7-SB-4.0-5.0	6415790	N	3550B	8270C SIM	III
21-Sep-2011	SL-056-SA7-SB-4.0-5.0	6415790	N	5035	8015M	III
21-Sep-2011	SL-056-SA7-SB-4.0-5.0	6415790	N	8330	8330A	III
21-Sep-2011	SL-056-SA7-SB-4.0-5.0	6415790	N	Gen Prep	300.0	III
21-Sep-2011	SL-056-SA7-SB-4.0-5.0	6415790	N	METHOD	300.0	III
21-Sep-2011	SL-056-SA7-SB-4.0-5.0	6415790	N	METHOD	314.0	III
21-Sep-2011	SL-056-SA7-SB-4.0-5.0	6415790	N	METHOD	6850	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Sep-2011	SL-056-SA7-SB-4.0-5.0	6415790	N	METHOD	7471A	III
21-Sep-2011	SL-056-SA7-SB-4.0-5.0	6415790	N	METHOD	8015B	III
21-Sep-2011	SL-056-SA7-SB-4.0-5.0	6415790	N	METHOD	8015M	III
21-Sep-2011	SL-056-SA7-SB-4.0-5.0	6415790	N	METHOD	8315A	III
21-Sep-2011	SL-056-SA7-SB-4.0-5.0	6415790	N	METHOD	9012B	III
21-Sep-2011	SL-056-SA7-SB-4.0-5.0MSD	P415790M262230	MSD	3546	1625C	III
21-Sep-2011	SL-056-SA7-SB-4.0-5.0MS	P415790R262209	MS	3546	1625C	III
21-Sep-2011	SL-175-SA7-SS-0.0-0.5	6415788	N	3050B	6010B	III
21-Sep-2011	SL-175-SA7-SS-0.0-0.5	6415788	N	3050B	6020	III
21-Sep-2011	SL-175-SA7-SS-0.0-0.5	6415788	N	3060A	7199	III
21-Sep-2011	SL-175-SA7-SS-0.0-0.5	6415788	N	3550B	8015B	III
21-Sep-2011	SL-175-SA7-SS-0.0-0.5	6415788	N	3550B	8015M	III
21-Sep-2011	SL-175-SA7-SS-0.0-0.5	6415788	N	3550B	8081A	III
21-Sep-2011	SL-175-SA7-SS-0.0-0.5	6415788	N	3550B	8082	III
21-Sep-2011	SL-175-SA7-SS-0.0-0.5	6415788	N	3550B	8151A	III
21-Sep-2011	SL-175-SA7-SS-0.0-0.5	6415788	N	3550B	8270C	III
21-Sep-2011	SL-175-SA7-SS-0.0-0.5	6415788	N	3550B	8270C SIM	III
21-Sep-2011	SL-175-SA7-SS-0.0-0.5	6415788	N	METHOD	300.0	III
21-Sep-2011	SL-175-SA7-SS-0.0-0.5	6415788	N	METHOD	314.0	III
21-Sep-2011	SL-175-SA7-SS-0.0-0.5	6415788	N	METHOD	6850	III
21-Sep-2011	SL-175-SA7-SS-0.0-0.5	6415788	N	METHOD	7471A	III
21-Sep-2011	SL-175-SA7-SS-0.0-0.5	6415788	N	METHOD	8015B	III
21-Sep-2011	SL-175-SA7-SS-0.0-0.5	6415788	N	METHOD	8015M	III
21-Sep-2011	SL-175-SA7-SS-0.0-0.5	6415788	N	METHOD	9012B	III
21-Sep-2011	SL-121-SA7-SS-0.0-0.5	6415785	N	3050B	6010B	III
21-Sep-2011	SL-121-SA7-SS-0.0-0.5	6415785	N	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Sep-2011	SL-121-SA7-SS-0.0-0.5	6415785	N	3060A	7199	III
21-Sep-2011	SL-121-SA7-SS-0.0-0.5	6415785	N	3550B	8015B	III
21-Sep-2011	SL-121-SA7-SS-0.0-0.5	6415785	N	3550B	8015M	III
21-Sep-2011	SL-121-SA7-SS-0.0-0.5	6415785	N	3550B	8081A	III
21-Sep-2011	SL-121-SA7-SS-0.0-0.5	6415785	N	3550B	8082	III
21-Sep-2011	SL-121-SA7-SS-0.0-0.5	6415785	N	3550B	8151A	III
21-Sep-2011	SL-121-SA7-SS-0.0-0.5	6415785	N	3550B	8270C	III
21-Sep-2011	SL-121-SA7-SS-0.0-0.5	6415785	N	3550B	8270C SIM	III
21-Sep-2011	SL-121-SA7-SS-0.0-0.5	6415785	N	METHOD	300.0	III
21-Sep-2011	SL-121-SA7-SS-0.0-0.5	6415785	N	METHOD	314.0	III
21-Sep-2011	SL-121-SA7-SS-0.0-0.5	6415785	N	METHOD	6850	III
21-Sep-2011	SL-121-SA7-SS-0.0-0.5	6415785	N	METHOD	7471A	III
21-Sep-2011	SL-121-SA7-SS-0.0-0.5	6415785	N	METHOD	8015B	III
21-Sep-2011	SL-121-SA7-SS-0.0-0.5	6415785	N	METHOD	8015M	III
21-Sep-2011	SL-121-SA7-SS-0.0-0.5	6415785	N	METHOD	9012B	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5	6415779	N	3050B	6010B	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5	6415779	N	3050B	6020	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5	6415779	N	3060A	7199	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5	6415779	N	3550B	8015B	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5	6415779	N	3550B	8015M	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5	6415779	N	3550B	8081A	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5	6415779	N	3550B	8082	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5	6415779	N	3550B	8151A	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5	6415779	N	3550B	8270C	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5	6415779	N	3550B	8270C SIM	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5	6415779	N	METHOD	300.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Sep-2011	SL-120-SA7-SS-0.0-0.5	6415779	N	METHOD	314.0	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5	6415779	N	METHOD	6850	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5	6415779	N	METHOD	7471A	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5	6415779	N	METHOD	8015B	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5	6415779	N	METHOD	8015M	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5	6415779	N	METHOD	9012B	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MS	6415780	MS	3050B	6010B	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MS	6415780	MS	3050B	6020	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MS	6415780	MS	3060A	7199	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MS	6415780	MS	3550B	8015B	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MS	6415780	MS	3550B	8015M	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MS	6415780	MS	3550B	8081A	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MS	6415780	MS	3550B	8082	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MS	6415780	MS	3550B	8151A	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MS	6415780	MS	3550B	8270C	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MS	6415780	MS	3550B	8270C SIM	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MS	6415780	MS	METHOD	300.0	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MS	6415780	MS	METHOD	314.0	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MS	6415780	MS	METHOD	6850	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MS	6415780	MS	METHOD	7471A	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MS	6415780	MS	METHOD	8015B	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MS	6415780	MS	METHOD	8015M	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MS	6415780	MS	METHOD	9012B	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MSD	6415781	MSD	3050B	6010B	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MSD	6415781	MSD	3050B	6020	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MSD	6415781	MSD	3550B	8015B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MSD	6415781	MSD	3550B	8015M	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MSD	6415781	MSD	3550B	8081A	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MSD	6415781	MSD	3550B	8082	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MSD	6415781	MSD	3550B	8151A	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MSD	6415781	MSD	3550B	8270C	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MSD	6415781	MSD	3550B	8270C SIM	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MSD	6415781	MSD	METHOD	6850	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MSD	6415781	MSD	METHOD	7471A	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MSD	6415781	MSD	METHOD	8015B	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MSD	6415781	MSD	METHOD	8015M	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5DUP	6415782	DUP	3050B	6010B	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5DUP	6415782	DUP	3050B	6020	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5DUP	6415782	DUP	3060A	7199	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5DUP	6415782	DUP	METHOD	300.0	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5DUP	6415782	DUP	METHOD	314.0	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5DUP	6415782	DUP	METHOD	7471A	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5DUP	6415782	DUP	METHOD	9012B	III
21-Sep-2011	DUP04-SA7-QC-092111	6415789	FD	3050B	6010B	III
21-Sep-2011	DUP04-SA7-QC-092111	6415789	FD	3050B	6020	III
21-Sep-2011	DUP04-SA7-QC-092111	6415789	FD	3060A	7199	III
21-Sep-2011	DUP04-SA7-QC-092111	6415789	FD	3550B	8015B	III
21-Sep-2011	DUP04-SA7-QC-092111	6415789	FD	3550B	8015M	III
21-Sep-2011	DUP04-SA7-QC-092111	6415789	FD	3550B	8081A	III
21-Sep-2011	DUP04-SA7-QC-092111	6415789	FD	3550B	8082	III
21-Sep-2011	DUP04-SA7-QC-092111	6415789	FD	3550B	8151A	III
21-Sep-2011	DUP04-SA7-QC-092111	6415789	FD	3550B	8270C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Sep-2011	DUP04-SA7-QC-092111	6415789	FD	3550B	8270C SIM	III
21-Sep-2011	DUP04-SA7-QC-092111	6415789	FD	METHOD	300.0	III
21-Sep-2011	DUP04-SA7-QC-092111	6415789	FD	METHOD	314.0	III
21-Sep-2011	DUP04-SA7-QC-092111	6415789	FD	METHOD	6850	III
21-Sep-2011	DUP04-SA7-QC-092111	6415789	FD	METHOD	7471A	III
21-Sep-2011	DUP04-SA7-QC-092111	6415789	FD	METHOD	8015B	III
21-Sep-2011	DUP04-SA7-QC-092111	6415789	FD	METHOD	8015M	III
21-Sep-2011	DUP04-SA7-QC-092111	6415789	FD	METHOD	9012B	III
21-Sep-2011	SL-119-SA7-SS-0.0-0.5	6415778	N	3050B	6010B	III
21-Sep-2011	SL-119-SA7-SS-0.0-0.5	6415778	N	3050B	6020	III
21-Sep-2011	SL-119-SA7-SS-0.0-0.5	6415778	N	3060A	7199	III
21-Sep-2011	SL-119-SA7-SS-0.0-0.5	6415778	N	3550B	8015B	III
21-Sep-2011	SL-119-SA7-SS-0.0-0.5	6415778	N	3550B	8015M	III
21-Sep-2011	SL-119-SA7-SS-0.0-0.5	6415778	N	3550B	8081A	III
21-Sep-2011	SL-119-SA7-SS-0.0-0.5	6415778	N	3550B	8082	III
21-Sep-2011	SL-119-SA7-SS-0.0-0.5	6415778	N	3550B	8151A	III
21-Sep-2011	SL-119-SA7-SS-0.0-0.5	6415778	N	3550B	8270C	III
21-Sep-2011	SL-119-SA7-SS-0.0-0.5	6415778	N	3550B	8270C SIM	III
21-Sep-2011	SL-119-SA7-SS-0.0-0.5	6415778	N	METHOD	300.0	III
21-Sep-2011	SL-119-SA7-SS-0.0-0.5	6415778	N	METHOD	314.0	III
21-Sep-2011	SL-119-SA7-SS-0.0-0.5	6415778	N	METHOD	6850	III
21-Sep-2011	SL-119-SA7-SS-0.0-0.5	6415778	N	METHOD	7471A	III
21-Sep-2011	SL-119-SA7-SS-0.0-0.5	6415778	N	METHOD	8015B	III
21-Sep-2011	SL-119-SA7-SS-0.0-0.5	6415778	N	METHOD	8015M	III
21-Sep-2011	SL-119-SA7-SS-0.0-0.5	6415778	N	METHOD	9012B	III
21-Sep-2011	SL-158-SA7-SB-4.0-5.0	6415796	N	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Sep-2011	SL-158-SA7-SB-4.0-5.0	6415796	N	3050B	6020	III
21-Sep-2011	SL-158-SA7-SB-4.0-5.0	6415796	N	3060A	7199	III
21-Sep-2011	SL-158-SA7-SB-4.0-5.0	6415796	N	3550B	8015B	III
21-Sep-2011	SL-158-SA7-SB-4.0-5.0	6415796	N	3550B	8015M	III
21-Sep-2011	SL-158-SA7-SB-4.0-5.0	6415796	N	3550B	8082	III
21-Sep-2011	SL-158-SA7-SB-4.0-5.0	6415796	N	3550B	8270C	III
21-Sep-2011	SL-158-SA7-SB-4.0-5.0	6415796	N	3550B	8270C SIM	III
21-Sep-2011	SL-158-SA7-SB-4.0-5.0	6415796	N	5035	8015M	III
21-Sep-2011	SL-158-SA7-SB-4.0-5.0	6415796	N	METHOD	300.0	III
21-Sep-2011	SL-158-SA7-SB-4.0-5.0	6415796	N	METHOD	314.0	III
21-Sep-2011	SL-158-SA7-SB-4.0-5.0	6415796	N	METHOD	7471A	III
21-Sep-2011	SL-158-SA7-SB-4.0-5.0	6415796	N	METHOD	8015B	III
21-Sep-2011	SL-158-SA7-SB-4.0-5.0	6415796	N	METHOD	8015M	III
21-Sep-2011	SL-061-SA7-SS-0.0-0.5	6415777	N	3050B	6010B	III
21-Sep-2011	SL-061-SA7-SS-0.0-0.5	6415777	N	3050B	6020	III
21-Sep-2011	SL-061-SA7-SS-0.0-0.5	6415777	N	3060A	7199	III
21-Sep-2011	SL-061-SA7-SS-0.0-0.5	6415777	N	3550B	8015B	III
21-Sep-2011	SL-061-SA7-SS-0.0-0.5	6415777	N	3550B	8015M	III
21-Sep-2011	SL-061-SA7-SS-0.0-0.5	6415777	N	3550B	8081A	III
21-Sep-2011	SL-061-SA7-SS-0.0-0.5	6415777	N	3550B	8082	III
21-Sep-2011	SL-061-SA7-SS-0.0-0.5	6415777	N	3550B	8151A	III
21-Sep-2011	SL-061-SA7-SS-0.0-0.5	6415777	N	3550B	8270C	III
21-Sep-2011	SL-061-SA7-SS-0.0-0.5	6415777	N	3550B	8270C SIM	III
21-Sep-2011	SL-061-SA7-SS-0.0-0.5	6415777	N	METHOD	300.0	III
21-Sep-2011	SL-061-SA7-SS-0.0-0.5	6415777	N	METHOD	314.0	III
21-Sep-2011	SL-061-SA7-SS-0.0-0.5	6415777	N	METHOD	6850	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Sep-2011	SL-061-SA7-SS-0.0-0.5	6415777	N	METHOD	7471A	III
21-Sep-2011	SL-061-SA7-SS-0.0-0.5	6415777	N	METHOD	8015B	III
21-Sep-2011	SL-061-SA7-SS-0.0-0.5	6415777	N	METHOD	8015M	III
21-Sep-2011	SL-061-SA7-SS-0.0-0.5	6415777	N	METHOD	9012B	III
21-Sep-2011	SL-078-SA7-SB-4.0-5.0	6415792	N	3050B	6010B	III
21-Sep-2011	SL-078-SA7-SB-4.0-5.0	6415792	N	3050B	6020	III
21-Sep-2011	SL-078-SA7-SB-4.0-5.0	6415792	N	3060A	7199	III
21-Sep-2011	SL-078-SA7-SB-4.0-5.0	6415792	N	3550B	8015B	III
21-Sep-2011	SL-078-SA7-SB-4.0-5.0	6415792	N	3550B	8015M	III
21-Sep-2011	SL-078-SA7-SB-4.0-5.0	6415792	N	3550B	8082	III
21-Sep-2011	SL-078-SA7-SB-4.0-5.0	6415792	N	3550B	8270C	III
21-Sep-2011	SL-078-SA7-SB-4.0-5.0	6415792	N	3550B	8270C SIM	III
21-Sep-2011	SL-078-SA7-SB-4.0-5.0	6415792	N	5035	8015M	III
21-Sep-2011	SL-078-SA7-SB-4.0-5.0	6415792	N	METHOD	300.0	III
21-Sep-2011	SL-078-SA7-SB-4.0-5.0	6415792	N	METHOD	314.0	III
21-Sep-2011	SL-078-SA7-SB-4.0-5.0	6415792	N	METHOD	7471A	III
21-Sep-2011	SL-078-SA7-SB-4.0-5.0	6415792	N	METHOD	8015B	III
21-Sep-2011	SL-078-SA7-SB-4.0-5.0	6415792	N	METHOD	8015M	III
21-Sep-2011	SL-078-SA7-SB-4.0-5.0DUP	P415792D270750B	DUP	METHOD	314.0	III
21-Sep-2011	SL-078-SA7-SB-4.0-5.0MS	P415792R270836B	MS	METHOD	314.0	III
21-Sep-2011	SL-078-SA7-SB-7.0-8.0	6415793	N	3050B	6010B	III
21-Sep-2011	SL-078-SA7-SB-7.0-8.0	6415793	N	3050B	6020	III
21-Sep-2011	SL-078-SA7-SB-7.0-8.0	6415793	N	3060A	7199	III
21-Sep-2011	SL-078-SA7-SB-7.0-8.0	6415793	N	3550B	8015B	III
21-Sep-2011	SL-078-SA7-SB-7.0-8.0	6415793	N	3550B	8015M	III
21-Sep-2011	SL-078-SA7-SB-7.0-8.0	6415793	N	3550B	8082	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Sep-2011	SL-078-SA7-SB-7.0-8.0	6415793	N	3550B	8270C	III
21-Sep-2011	SL-078-SA7-SB-7.0-8.0	6415793	N	3550B	8270C SIM	III
21-Sep-2011	SL-078-SA7-SB-7.0-8.0	6415793	N	5035	8015M	III
21-Sep-2011	SL-078-SA7-SB-7.0-8.0	6415793	N	METHOD	300.0	III
21-Sep-2011	SL-078-SA7-SB-7.0-8.0	6415793	N	METHOD	314.0	III
21-Sep-2011	SL-078-SA7-SB-7.0-8.0	6415793	N	METHOD	7471A	III
21-Sep-2011	SL-078-SA7-SB-7.0-8.0	6415793	N	METHOD	8015B	III
21-Sep-2011	SL-078-SA7-SB-7.0-8.0	6415793	N	METHOD	8015M	III
21-Sep-2011	EB-SA7-SS-092111	6415798	EB	3005A	6010B	III
21-Sep-2011	EB-SA7-SS-092111	6415798	EB	3020A	6020	III
21-Sep-2011	EB-SA7-SS-092111	6415798	EB	3510C	8015B	III
21-Sep-2011	EB-SA7-SS-092111	6415798	EB	3510C	8015M	III
21-Sep-2011	EB-SA7-SS-092111	6415798	EB	3510C	8081A	III
21-Sep-2011	EB-SA7-SS-092111	6415798	EB	3510C	8082	III
21-Sep-2011	EB-SA7-SS-092111	6415798	EB	3510C	8270C	III
21-Sep-2011	EB-SA7-SS-092111	6415798	EB	3510C	8270C SIM	III
21-Sep-2011	EB-SA7-SS-092111	6415798	EB	3520C	1625C	III
21-Sep-2011	EB-SA7-SS-092111	6415798	EB	8330	8330A	III
21-Sep-2011	EB-SA7-SS-092111	6415798	EB	Gen Prep	300.0	III
21-Sep-2011	EB-SA7-SS-092111	6415798	EB	Gen Prep	314.0	III
21-Sep-2011	EB-SA7-SS-092111	6415798	EB	Gen Prep	7199	III
21-Sep-2011	EB-SA7-SS-092111	6415798	EB	Gen Prep	8015B	III
21-Sep-2011	EB-SA7-SS-092111	6415798	EB	Gen Prep	8015M	III
21-Sep-2011	EB-SA7-SS-092111	6415798	EB	METHOD	7470A	III
21-Sep-2011	EB-SA7-SS-092111	6415798	EB	METHOD	8151A	III
21-Sep-2011	EB-SA7-SS-092111	6415798	EB	METHOD	8315A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Sep-2011	EB-SA7-SS-092111	6415798	EB	METHOD	9012B	III
21-Sep-2011	SL-156-SA7-SB-4.0-5.0	6415794	N	3050B	6010B	III
21-Sep-2011	SL-156-SA7-SB-4.0-5.0	6415794	N	3050B	6020	III
21-Sep-2011	SL-156-SA7-SB-4.0-5.0	6415794	N	3060A	7199	III
21-Sep-2011	SL-156-SA7-SB-4.0-5.0	6415794	N	3550B	8015B	III
21-Sep-2011	SL-156-SA7-SB-4.0-5.0	6415794	N	3550B	8015M	III
21-Sep-2011	SL-156-SA7-SB-4.0-5.0	6415794	N	3550B	8082	III
21-Sep-2011	SL-156-SA7-SB-4.0-5.0	6415794	N	3550B	8270C	III
21-Sep-2011	SL-156-SA7-SB-4.0-5.0	6415794	N	3550B	8270C SIM	III
21-Sep-2011	SL-156-SA7-SB-4.0-5.0	6415794	N	5035	8015M	III
21-Sep-2011	SL-156-SA7-SB-4.0-5.0	6415794	N	METHOD	300.0	III
21-Sep-2011	SL-156-SA7-SB-4.0-5.0	6415794	N	METHOD	314.0	III
21-Sep-2011	SL-156-SA7-SB-4.0-5.0	6415794	N	METHOD	7471A	III
21-Sep-2011	SL-156-SA7-SB-4.0-5.0	6415794	N	METHOD	8015B	III
21-Sep-2011	SL-156-SA7-SB-4.0-5.0	6415794	N	METHOD	8015M	III
21-Sep-2011	SL-156-SA7-SB-7.5-8.5	6415795	N	3050B	6010B	III
21-Sep-2011	SL-156-SA7-SB-7.5-8.5	6415795	N	3050B	6020	III
21-Sep-2011	SL-156-SA7-SB-7.5-8.5	6415795	N	3060A	7199	III
21-Sep-2011	SL-156-SA7-SB-7.5-8.5	6415795	N	3550B	8015B	III
21-Sep-2011	SL-156-SA7-SB-7.5-8.5	6415795	N	3550B	8015M	III
21-Sep-2011	SL-156-SA7-SB-7.5-8.5	6415795	N	3550B	8082	III
21-Sep-2011	SL-156-SA7-SB-7.5-8.5	6415795	N	3550B	8270C	III
21-Sep-2011	SL-156-SA7-SB-7.5-8.5	6415795	N	3550B	8270C SIM	III
21-Sep-2011	SL-156-SA7-SB-7.5-8.5	6415795	N	5035	8015M	III
21-Sep-2011	SL-156-SA7-SB-7.5-8.5	6415795	N	METHOD	300.0	III
21-Sep-2011	SL-156-SA7-SB-7.5-8.5	6415795	N	METHOD	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Sep-2011	SL-156-SA7-SB-7.5-8.5	6415795	N	METHOD	7471A	III
21-Sep-2011	SL-156-SA7-SB-7.5-8.5	6415795	N	METHOD	8015B	III
21-Sep-2011	SL-156-SA7-SB-7.5-8.5	6415795	N	METHOD	8015M	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: DUP04-SA7-QC-092111			Collected: 9/21/2011 10:05:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	0.82	U	0.82	MDL	1.0	PQL	mg/Kg	UJ	E	

Sample ID: SL-001-SA7-SS-0.0-0.5			Collected: 9/21/2011 8:00:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	0.82	U	0.82	MDL	1.0	PQL	mg/Kg	UJ	E	

Sample ID: SL-056-SA7-SB-4.0-5.0			Collected: 9/21/2011 8:42:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	3.7		0.88	MDL	1.1	PQL	mg/Kg	J	E	

Sample ID: SL-057-SA7-SB-3.0-4.0			Collected: 9/21/2011 8:05:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	5.8		0.87	MDL	1.1	PQL	mg/Kg	J	Q	

Sample ID: SL-061-SA7-SS-0.0-0.5			Collected: 9/21/2011 11:50:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	0.83	U	0.83	MDL	1.0	PQL	mg/Kg	UJ	E	

Sample ID: SL-078-SA7-SB-4.0-5.0			Collected: 9/21/2011 12:09:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	3.1		0.87	MDL	1.1	PQL	mg/Kg	J	Q	

Sample ID: SL-078-SA7-SB-7.0-8.0			Collected: 9/21/2011 12:13:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	5.1		0.86	MDL	1.1	PQL	mg/Kg	J	Q	

Sample ID: SL-119-SA7-SS-0.0-0.5			Collected: 9/21/2011 10:35:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	0.80	U	0.80	MDL	1.0	PQL	mg/Kg	UJ	E	

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM
Method: 300.0 **Matrix:** SO

Sample ID: SL-120-SA7-SS-0.0-0.5 Collected: 9/21/2011 10:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.83	U	0.83	MDL	1.0	PQL	mg/Kg	UJ	E

Sample ID: SL-121-SA7-SS-0.0-0.5 Collected: 9/21/2011 9:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.82	U	0.82	MDL	1.0	PQL	mg/Kg	UJ	E

Sample ID: SL-123-SA7-SS-0.0-0.5 Collected: 9/21/2011 8:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.82	U	0.82	MDL	1.0	PQL	mg/Kg	UJ	E

Sample ID: SL-124-SA7-SS-0.0-0.5 Collected: 9/21/2011 8:20:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.83	U	0.83	MDL	1.0	PQL	mg/Kg	UJ	E

Sample ID: SL-156-SA7-SB-4.0-5.0 Collected: 9/21/2011 2:39:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.2		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-156-SA7-SB-7.5-8.5 Collected: 9/21/2011 2:43:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.8		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-158-SA7-SB-4.0-5.0 Collected: 9/21/2011 10:51:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.5		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-175-SA7-SS-0.0-0.5 Collected: 9/21/2011 9:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.82	U	0.82	MDL	1.0	PQL	mg/Kg	UJ	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Method Category:	GENCHEM	
Method:	9012B	Matrix: SO

Sample ID: DUP04-SA7-QC-092111	Collected: 9/21/2011 10:05:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYANIDE	0.18	U	0.18	MDL	0.51	PQL	mg/Kg	UJ	FD

Sample ID: SL-061-SA7-SS-0.0-0.5	Collected: 9/21/2011 11:50:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYANIDE	0.32	J	0.18	MDL	0.51	PQL	mg/Kg	J	Z

Sample ID: SL-120-SA7-SS-0.0-0.5	Collected: 9/21/2011 10:00:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYANIDE	0.23	J	0.18	MDL	0.49	PQL	mg/Kg	J	Z, FD

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: DUP04-SA7-QC-092111	Collected: 9/21/2011 10:05:00	Analysis Type: REA2	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.78	J	0.358	MDL	4.97	PQL	mg/Kg	J	Z
POTASSIUM	3810		11.2	MDL	49.7	PQL	mg/Kg	J	Q
SODIUM	80.4	J	5.92	MDL	99.5	PQL	mg/Kg	J	Z
TIN	6.59	J	0.318	MDL	9.95	PQL	mg/Kg	UJ	B, FD
Zirconium	3.13	J	0.458	MDL	4.97	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA7-SS-0.0-0.5	Collected: 9/21/2011 8:00:00	Analysis Type: REA2	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4390		11.1	MDL	49.0	PQL	mg/Kg	J	Q
SODIUM	79.8	J	5.83	MDL	98.0	PQL	mg/Kg	J	Z
TIN	3.11	J	0.314	MDL	9.80	PQL	mg/Kg	U	B
Zirconium	2.83	J	0.451	MDL	4.90	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6010B **Matrix:** SO

Sample ID: SL-056-SA7-SB-4.0-5.0 Collected: 9/21/2011 8:42:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2390		12.4	MDL	54.7	PQL	mg/Kg	J	Q
TIN	3.12	J	0.350	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.54	J	0.503	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-057-SA7-SB-3.0-4.0 Collected: 9/21/2011 8:05:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2200		11.8	MDL	52.4	PQL	mg/Kg	J	Q
TIN	3.09	J	0.335	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.46	J	0.482	MDL	5.24	PQL	mg/Kg	J	Z

Sample ID: SL-061-SA7-SS-0.0-0.5 Collected: 9/21/2011 11:50:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.737	J	0.367	MDL	5.10	PQL	mg/Kg	J	Z
POTASSIUM	3830		11.5	MDL	51.0	PQL	mg/Kg	J	Q
SODIUM	91.0	J	6.07	MDL	102	PQL	mg/Kg	J	Z
TIN	3.09	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.63	J	0.470	MDL	5.10	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA7-SB-4.0-5.0 Collected: 9/21/2011 12:09:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1470		12.3	MDL	54.6	PQL	mg/Kg	J	Q
TIN	3.29	J	0.350	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	4.02	J	0.503	MDL	5.46	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA7-SB-7.0-8.0 Collected: 9/21/2011 12:13:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1600		12.1	MDL	53.5	PQL	mg/Kg	J	Q
TIN	3.42	J	0.342	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	2.69	J	0.492	MDL	5.35	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6010B **Matrix:** SO

Sample ID: SL-119-SA7-SS-0.0-0.5 **Collected:** 9/21/2011 10:35:00 **Analysis Type:** REA2 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3790		11.0	MDL	48.7	PQL	mg/Kg	J	Q
SODIUM	82.9	J	5.80	MDL	97.4	PQL	mg/Kg	J	Z
TIN	3.04	J	0.312	MDL	9.74	PQL	mg/Kg	U	B
Zirconium	2.96	J	0.448	MDL	4.87	PQL	mg/Kg	J	Z

Sample ID: SL-120-SA7-SS-0.0-0.5 **Collected:** 9/21/2011 10:00:00 **Analysis Type:** REA2 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.77	J	0.369	MDL	5.13	PQL	mg/Kg	J	Z
POTASSIUM	3920		11.6	MDL	51.3	PQL	mg/Kg	J	Q
SODIUM	84.3	J	6.10	MDL	103	PQL	mg/Kg	J	Z
TIN	3.30	J	0.328	MDL	10.3	PQL	mg/Kg	UJ	B, FD
Zirconium	3.08	J	0.472	MDL	5.13	PQL	mg/Kg	J	Z

Sample ID: SL-121-SA7-SS-0.0-0.5 **Collected:** 9/21/2011 9:35:00 **Analysis Type:** REA2 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3250		11.3	MDL	50.2	PQL	mg/Kg	J	Q
SODIUM	76.0	J	5.97	MDL	100	PQL	mg/Kg	J	Z
TIN	2.94	J	0.321	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	2.97	J	0.461	MDL	5.02	PQL	mg/Kg	J	Z

Sample ID: SL-123-SA7-SS-0.0-0.5 **Collected:** 9/21/2011 8:40:00 **Analysis Type:** REA2 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.695	J	0.358	MDL	4.97	PQL	mg/Kg	J	Z
POTASSIUM	3830		11.2	MDL	49.7	PQL	mg/Kg	J	Q
SODIUM	85.5	J	5.91	MDL	99.4	PQL	mg/Kg	J	Z
TIN	2.93	J	0.318	MDL	9.94	PQL	mg/Kg	U	B
Zirconium	3.54	J	0.457	MDL	4.97	PQL	mg/Kg	J	Z

Sample ID: SL-124-SA7-SS-0.0-0.5 **Collected:** 9/21/2011 8:20:00 **Analysis Type:** REA2 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4060		11.5	MDL	51.0	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-124-SA7-SS-0.0-0.5 Collected: 9/21/2011 8:20:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	91.7	J	6.07	MDL	102	PQL	mg/Kg	J	Z
TIN	3.23	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.64	J	0.470	MDL	5.10	PQL	mg/Kg	J	Z

Sample ID: SL-156-SA7-SB-4.0-5.0 Collected: 9/21/2011 2:39:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.877	J	0.373	MDL	5.18	PQL	mg/Kg	J	Z
POTASSIUM	2770		11.7	MDL	51.8	PQL	mg/Kg	J	Q
TIN	3.23	J	0.331	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.94	J	0.476	MDL	5.18	PQL	mg/Kg	J	Z

Sample ID: SL-156-SA7-SB-7.5-8.5 Collected: 9/21/2011 2:43:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3190		12.0	MDL	53.3	PQL	mg/Kg	J	Q
TIN	2.96	J	0.341	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.94	J	0.490	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: SL-158-SA7-SB-4.0-5.0 Collected: 9/21/2011 10:51:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.57	J	0.362	MDL	5.03	PQL	mg/Kg	J	Z
POTASSIUM	2540		11.4	MDL	50.3	PQL	mg/Kg	J	Q
TIN	2.97	J	0.322	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	2.74	J	0.462	MDL	5.03	PQL	mg/Kg	J	Z

Sample ID: SL-175-SA7-SS-0.0-0.5 Collected: 9/21/2011 9:00:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3440		11.3	MDL	50.2	PQL	mg/Kg	J	Q
SODIUM	90.4	J	5.97	MDL	100	PQL	mg/Kg	J	Z
TIN	3.10	J	0.321	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	3.44	J	0.461	MDL	5.02	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: AQ

Sample ID: EB-SA7-SS-092111	Collected: 9/21/2011 2:00:00	Analysis Type: REA5	Dilution: 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.00021	J	0.00008 0	MDL	0.0010	PQL	mg/L	J	Z

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: DUP04-SA7-QC-092111	Collected: 9/21/2011 10:05:00	Analysis Type: REA2	Dilution: 2
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.161	J	0.0588	MDL	0.406	PQL	mg/Kg	J	Z, Q

Sample ID: DUP04-SA7-QC-092111	Collected: 9/21/2011 10:05:00	Analysis Type: REA3	Dilution: 2
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.947		0.0507	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: DUP04-SA7-QC-092111	Collected: 9/21/2011 10:05:00	Analysis Type: RES	Dilution: 2
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.264		0.0751	MDL	0.203	PQL	mg/Kg	J	Q
ARSENIC	4.81		0.0812	MDL	0.406	PQL	mg/Kg	J	Q
BERYLLIUM	0.578		0.0162	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.499		0.0446	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	21.0		0.122	MDL	0.406	PQL	mg/Kg	J	Q, A
COBALT	6.80		0.0203	MDL	0.101	PQL	mg/Kg	J	Q, A
COPPER	14.4		0.0812	MDL	0.406	PQL	mg/Kg	J	Q
LEAD	30.1		0.0103	MDL	0.203	PQL	mg/Kg	J	E
NICKEL	16.6		0.101	MDL	0.406	PQL	mg/Kg	J	Q, A
SILVER	0.0652	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.257		0.0304	MDL	0.101	PQL	mg/Kg	J	Q, E
VANADIUM	40.1		0.0223	MDL	0.101	PQL	mg/Kg	J	Q, A

Sample ID: SL-001-SA7-SS-0.0-0.5	Collected: 9/21/2011 8:00:00	Analysis Type: REA2	Dilution: 2
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.215	J	0.0580	MDL	0.400	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-001-SA7-SS-0.0-0.5	Collected: 9/21/2011 8:00:00	Analysis Type: REA3	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.853		0.0500	MDL	0.0999	PQL	mg/Kg	J	Q

Sample ID: SL-001-SA7-SS-0.0-0.5	Collected: 9/21/2011 8:00:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.255		0.0740	MDL	0.200	PQL	mg/Kg	J	Q
ARSENIC	6.38		0.0800	MDL	0.400	PQL	mg/Kg	J	Q
BERYLLIUM	0.747		0.0160	MDL	0.0999	PQL	mg/Kg	J	Q
CADMIUM	0.296		0.0440	MDL	0.0999	PQL	mg/Kg	J	Q
CHROMIUM	25.4		0.120	MDL	0.400	PQL	mg/Kg	J	Q, A
COBALT	9.30		0.0200	MDL	0.0999	PQL	mg/Kg	J	Q, A
COPPER	14.4		0.0800	MDL	0.400	PQL	mg/Kg	J	Q
LEAD	18.6		0.0102	MDL	0.200	PQL	mg/Kg	J	E
NICKEL	19.9		0.0999	MDL	0.400	PQL	mg/Kg	J	Q, A
SILVER	0.0609	J	0.0142	MDL	0.0999	PQL	mg/Kg	J	Z, Q
THALLIUM	0.367		0.0300	MDL	0.0999	PQL	mg/Kg	J	Q, E
VANADIUM	53.1		0.0220	MDL	0.0999	PQL	mg/Kg	J	Q, A

Sample ID: SL-056-SA7-SB-4.0-5.0	Collected: 9/21/2011 8:42:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.107	J	0.0628	MDL	0.433	PQL	mg/Kg	J	Z, Q

Sample ID: SL-056-SA7-SB-4.0-5.0	Collected: 9/21/2011 8:42:00	Analysis Type: REA3	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.562		0.0542	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-056-SA7-SB-4.0-5.0	Collected: 9/21/2011 8:42:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0994	J	0.0802	MDL	0.217	PQL	mg/Kg	J	Z, Q
ARSENIC	5.66		0.0867	MDL	0.433	PQL	mg/Kg	J	Q
BERYLLIUM	0.711		0.0173	MDL	0.108	PQL	mg/Kg	J	Q
CADMIUM	0.0809	J	0.0477	MDL	0.108	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6020 **Matrix:** SO

Sample ID: SL-056-SA7-SB-4.0-5.0 Collected: 9/21/2011 8:42:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	20.1		0.130	MDL	0.433	PQL	mg/Kg	J	Q, A
COBALT	7.70		0.0217	MDL	0.108	PQL	mg/Kg	J	Q, A
COPPER	8.48		0.0867	MDL	0.433	PQL	mg/Kg	J	Q
LEAD	5.71		0.0110	MDL	0.217	PQL	mg/Kg	J	E
NICKEL	13.6		0.108	MDL	0.433	PQL	mg/Kg	J	Q, A
SILVER	0.0187	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.317		0.0325	MDL	0.108	PQL	mg/Kg	J	Q, E
VANADIUM	42.2		0.0238	MDL	0.108	PQL	mg/Kg	J	Q, A

Sample ID: SL-057-SA7-SB-3.0-4.0 Collected: 9/21/2011 8:05:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.175	J	0.0608	MDL	0.419	PQL	mg/Kg	J	Z, Q

Sample ID: SL-057-SA7-SB-3.0-4.0 Collected: 9/21/2011 8:05:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.527		0.0524	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-057-SA7-SB-3.0-4.0 Collected: 9/21/2011 8:05:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0955	J	0.0775	MDL	0.209	PQL	mg/Kg	J	Z, Q
ARSENIC	5.40		0.0838	MDL	0.419	PQL	mg/Kg	J	Q
BERYLLIUM	0.612		0.0168	MDL	0.105	PQL	mg/Kg	J	Q
CADMIUM	0.0781	J	0.0461	MDL	0.105	PQL	mg/Kg	J	Z, Q
CHROMIUM	18.1		0.126	MDL	0.419	PQL	mg/Kg	J	Q, A
COBALT	5.96		0.0209	MDL	0.105	PQL	mg/Kg	J	Q, A
COPPER	7.63		0.0838	MDL	0.419	PQL	mg/Kg	J	Q
LEAD	5.89		0.0107	MDL	0.209	PQL	mg/Kg	J	E
NICKEL	11.5		0.105	MDL	0.419	PQL	mg/Kg	J	Q, A
SILVER	0.0183	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.277		0.0314	MDL	0.105	PQL	mg/Kg	J	Q, E
VANADIUM	37.7		0.0230	MDL	0.105	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6020 **Matrix:** SO

Sample ID: SL-061-SA7-SS-0.0-0.5 Collected: 9/21/2011 11:50:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.178	J	0.0592	MDL	0.408	PQL	mg/Kg	J	Z, Q

Sample ID: SL-061-SA7-SS-0.0-0.5 Collected: 9/21/2011 11:50:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.787		0.0510	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-061-SA7-SS-0.0-0.5 Collected: 9/21/2011 11:50:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.250		0.0755	MDL	0.204	PQL	mg/Kg	J	Q
ARSENIC	6.20		0.0817	MDL	0.408	PQL	mg/Kg	J	Q
BERYLLIUM	0.717		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CADMIUM	0.357		0.0449	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	22.4		0.122	MDL	0.408	PQL	mg/Kg	J	Q, A
COBALT	7.83		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, A
COPPER	16.1		0.0817	MDL	0.408	PQL	mg/Kg	J	Q
LEAD	25.4		0.0104	MDL	0.204	PQL	mg/Kg	J	E
NICKEL	16.3		0.102	MDL	0.408	PQL	mg/Kg	J	Q, A
SILVER	0.0671	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.371		0.0306	MDL	0.102	PQL	mg/Kg	J	Q, E
VANADIUM	44.1		0.0225	MDL	0.102	PQL	mg/Kg	J	Q, A

Sample ID: SL-078-SA7-SB-4.0-5.0 Collected: 9/21/2011 12:09:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.159	J	0.0622	MDL	0.429	PQL	mg/Kg	J	Z, Q

Sample ID: SL-078-SA7-SB-4.0-5.0 Collected: 9/21/2011 12:09:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.39		0.0536	MDL	0.107	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-078-SA7-SB-4.0-5.0	Collected: 9/21/2011 12:09:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.108	J	0.0793	MDL	0.214	PQL	mg/Kg	J	Z, Q
ARSENIC	6.70		0.0857	MDL	0.429	PQL	mg/Kg	J	Q
BERYLLIUM	1.10		0.0171	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	23.3		0.129	MDL	0.429	PQL	mg/Kg	J	Q, A
COBALT	7.67		0.0214	MDL	0.107	PQL	mg/Kg	J	Q, A
COPPER	7.34		0.0857	MDL	0.429	PQL	mg/Kg	J	Q
LEAD	8.41		0.0109	MDL	0.214	PQL	mg/Kg	J	E
NICKEL	14.8		0.107	MDL	0.429	PQL	mg/Kg	J	Q, A
SILVER	0.0523	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.258		0.0321	MDL	0.107	PQL	mg/Kg	J	Q, E
VANADIUM	48.8		0.0236	MDL	0.107	PQL	mg/Kg	J	Q, A

Sample ID: SL-078-SA7-SB-7.0-8.0	Collected: 9/21/2011 12:13:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.110	J	0.0626	MDL	0.432	PQL	mg/Kg	J	Z, Q

Sample ID: SL-078-SA7-SB-7.0-8.0	Collected: 9/21/2011 12:13:00	Analysis Type: REA3	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.547		0.0540	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-078-SA7-SB-7.0-8.0	Collected: 9/21/2011 12:13:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0799	U	0.0799	MDL	0.216	PQL	mg/Kg	UJ	Q
ARSENIC	6.86		0.0864	MDL	0.432	PQL	mg/Kg	J	Q
BERYLLIUM	0.634		0.0173	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	17.9		0.130	MDL	0.432	PQL	mg/Kg	J	Q, A
COBALT	3.80		0.0216	MDL	0.108	PQL	mg/Kg	J	Q, A
COPPER	3.69		0.0864	MDL	0.432	PQL	mg/Kg	J	Q
LEAD	6.41		0.0110	MDL	0.216	PQL	mg/Kg	J	E
NICKEL	6.19		0.108	MDL	0.432	PQL	mg/Kg	J	Q, A
SILVER	0.0176	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.202		0.0324	MDL	0.108	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-078-SA7-SB-7.0-8.0 Collected: 9/21/2011 12:13:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	40.4		0.0238	MDL	0.108	PQL	mg/Kg	J	Q, A

Sample ID: SL-119-SA7-SS-0.0-0.5 Collected: 9/21/2011 10:35:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.160	J	0.0571	MDL	0.393	PQL	mg/Kg	J	Z, Q

Sample ID: SL-119-SA7-SS-0.0-0.5 Collected: 9/21/2011 10:35:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.957		0.0492	MDL	0.0984	PQL	mg/Kg	J	Q

Sample ID: SL-119-SA7-SS-0.0-0.5 Collected: 9/21/2011 10:35:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.292		0.0728	MDL	0.197	PQL	mg/Kg	J	Q
ARSENIC	5.63		0.0787	MDL	0.393	PQL	mg/Kg	J	Q
BERYLLIUM	0.710		0.0157	MDL	0.0984	PQL	mg/Kg	J	Q
CADMIUM	0.373		0.0433	MDL	0.0984	PQL	mg/Kg	J	Q
CHROMIUM	24.6		0.118	MDL	0.393	PQL	mg/Kg	J	Q, A
COBALT	7.57		0.0197	MDL	0.0984	PQL	mg/Kg	J	Q, A
COPPER	14.0		0.0787	MDL	0.393	PQL	mg/Kg	J	Q
LEAD	16.9		0.0100	MDL	0.197	PQL	mg/Kg	J	E
NICKEL	17.9		0.0984	MDL	0.393	PQL	mg/Kg	J	Q, A
SILVER	0.0461	J	0.0140	MDL	0.0984	PQL	mg/Kg	J	Z, Q
THALLIUM	0.350		0.0295	MDL	0.0984	PQL	mg/Kg	J	Q, E
VANADIUM	47.4		0.0216	MDL	0.0984	PQL	mg/Kg	J	Q, A

Sample ID: SL-120-SA7-SS-0.0-0.5 Collected: 9/21/2011 10:00:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.194	J	0.0595	MDL	0.410	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	6020	Matrix:	SO
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Sample ID: SL-120-SA7-SS-0.0-0.5	Collected: 9/21/2011 10:00:00	Analysis Type: REA3	Dilution: 2
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.810		0.0513	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-120-SA7-SS-0.0-0.5	Collected: 9/21/2011 10:00:00	Analysis Type: RES	Dilution: 2
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.261		0.0759	MDL	0.205	PQL	mg/Kg	J	Q
ARSENIC	4.05		0.0821	MDL	0.410	PQL	mg/Kg	J	Q
BERYLLIUM	0.550		0.0164	MDL	0.103	PQL	mg/Kg	J	Q
CADMIUM	0.466		0.0451	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	20.4		0.123	MDL	0.410	PQL	mg/Kg	J	Q, A
COBALT	6.02		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, A
COPPER	13.2		0.0821	MDL	0.410	PQL	mg/Kg	J	Q
LEAD	24.9		0.0105	MDL	0.205	PQL	mg/Kg	J	E
NICKEL	16.4		0.103	MDL	0.410	PQL	mg/Kg	J	Q, A
SILVER	0.0531	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q
THALLIUM	0.282		0.0308	MDL	0.103	PQL	mg/Kg	J	Q, E
VANADIUM	36.9		0.0226	MDL	0.103	PQL	mg/Kg	J	Q, A

Sample ID: SL-121-SA7-SS-0.0-0.5	Collected: 9/21/2011 9:35:00	Analysis Type: REA2	Dilution: 2
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.125	J	0.0588	MDL	0.405	PQL	mg/Kg	J	Z, Q

Sample ID: SL-121-SA7-SS-0.0-0.5	Collected: 9/21/2011 9:35:00	Analysis Type: REA3	Dilution: 2
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.815		0.0507	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-121-SA7-SS-0.0-0.5	Collected: 9/21/2011 9:35:00	Analysis Type: RES	Dilution: 2
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.227		0.0750	MDL	0.203	PQL	mg/Kg	J	Q
ARSENIC	4.93		0.0811	MDL	0.405	PQL	mg/Kg	J	Q
BERYLLIUM	0.634		0.0162	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.372		0.0446	MDL	0.101	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-121-SA7-SS-0.0-0.5 Collected: 9/21/2011 9:35:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	27.4		0.122	MDL	0.405	PQL	mg/Kg	J	Q, A
COBALT	7.10		0.0203	MDL	0.101	PQL	mg/Kg	J	Q, A
COPPER	14.0		0.0811	MDL	0.405	PQL	mg/Kg	J	Q
LEAD	27.4		0.0103	MDL	0.203	PQL	mg/Kg	J	E
NICKEL	18.7		0.101	MDL	0.405	PQL	mg/Kg	J	Q, A
SILVER	0.0571	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.288		0.0304	MDL	0.101	PQL	mg/Kg	J	Q, E
VANADIUM	40.9		0.0223	MDL	0.101	PQL	mg/Kg	J	Q, A

Sample ID: SL-123-SA7-SS-0.0-0.5 Collected: 9/21/2011 8:40:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.140	J	0.0582	MDL	0.401	PQL	mg/Kg	J	Z, Q

Sample ID: SL-123-SA7-SS-0.0-0.5 Collected: 9/21/2011 8:40:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.784		0.0502	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-123-SA7-SS-0.0-0.5 Collected: 9/21/2011 8:40:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.198	J	0.0743	MDL	0.201	PQL	mg/Kg	J	Z, Q
ARSENIC	7.67		0.0803	MDL	0.401	PQL	mg/Kg	J	Q
BERYLLIUM	0.770		0.0161	MDL	0.100	PQL	mg/Kg	J	Q
CADMIUM	0.413		0.0442	MDL	0.100	PQL	mg/Kg	J	Q
CHROMIUM	27.1		0.120	MDL	0.401	PQL	mg/Kg	J	Q, A
COBALT	8.91		0.0201	MDL	0.100	PQL	mg/Kg	J	Q, A
COPPER	17.2		0.0803	MDL	0.401	PQL	mg/Kg	J	Q
LEAD	15.6		0.0102	MDL	0.201	PQL	mg/Kg	J	E
NICKEL	18.0		0.100	MDL	0.401	PQL	mg/Kg	J	Q, A
SILVER	0.0489	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q
THALLIUM	0.343		0.0301	MDL	0.100	PQL	mg/Kg	J	Q, E
VANADIUM	52.3		0.0221	MDL	0.100	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-124-SA7-SS-0.0-0.5	Collected: 9/21/2011 8:20:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.259	J	0.0586	MDL	0.404	PQL	mg/Kg	J	Z, Q

Sample ID: SL-124-SA7-SS-0.0-0.5	Collected: 9/21/2011 8:20:00	Analysis Type: REA3	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.837		0.0505	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-124-SA7-SS-0.0-0.5	Collected: 9/21/2011 8:20:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.227		0.0748	MDL	0.202	PQL	mg/Kg	J	Q
ARSENIC	5.99		0.0809	MDL	0.404	PQL	mg/Kg	J	Q
BERYLLIUM	0.659		0.0162	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.280		0.0445	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	23.8		0.121	MDL	0.404	PQL	mg/Kg	J	Q, A
COBALT	8.36		0.0202	MDL	0.101	PQL	mg/Kg	J	Q, A
COPPER	14.3		0.0809	MDL	0.404	PQL	mg/Kg	J	Q
LEAD	22.1		0.0103	MDL	0.202	PQL	mg/Kg	J	E
NICKEL	18.0		0.101	MDL	0.404	PQL	mg/Kg	J	Q, A
SILVER	0.0571	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.333		0.0303	MDL	0.101	PQL	mg/Kg	J	Q, E
VANADIUM	46.4		0.0222	MDL	0.101	PQL	mg/Kg	J	Q, A

Sample ID: SL-156-SA7-SB-4.0-5.0	Collected: 9/21/2011 2:39:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.150	J	0.0612	MDL	0.422	PQL	mg/Kg	J	Z, Q

Sample ID: SL-156-SA7-SB-4.0-5.0	Collected: 9/21/2011 2:39:00	Analysis Type: REA3	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.713		0.0528	MDL	0.106	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-156-SA7-SB-4.0-5.0 Collected: 9/21/2011 2:39:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0781	U	0.0781	MDL	0.211	PQL	mg/Kg	UJ	Q
ARSENIC	4.76		0.0844	MDL	0.422	PQL	mg/Kg	J	Q
BERYLLIUM	0.622		0.0169	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.0818	J	0.0464	MDL	0.106	PQL	mg/Kg	J	Z, Q
CHROMIUM	14.0		0.127	MDL	0.422	PQL	mg/Kg	J	Q, A
COBALT	5.54		0.0211	MDL	0.106	PQL	mg/Kg	J	Q, A
COPPER	6.53		0.0844	MDL	0.422	PQL	mg/Kg	J	Q
LEAD	5.48		0.0108	MDL	0.211	PQL	mg/Kg	J	E
NICKEL	10.1		0.106	MDL	0.422	PQL	mg/Kg	J	Q, A
SILVER	0.0219	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.275		0.0317	MDL	0.106	PQL	mg/Kg	J	Q, E
VANADIUM	30.2		0.0232	MDL	0.106	PQL	mg/Kg	J	Q, A

Sample ID: SL-156-SA7-SB-7.5-8.5 Collected: 9/21/2011 2:43:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0762	J	0.0612	MDL	0.422	PQL	mg/Kg	J	Z, Q

Sample ID: SL-156-SA7-SB-7.5-8.5 Collected: 9/21/2011 2:43:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.630		0.0528	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-156-SA7-SB-7.5-8.5 Collected: 9/21/2011 2:43:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0781	U	0.0781	MDL	0.211	PQL	mg/Kg	UJ	Q
ARSENIC	4.43		0.0844	MDL	0.422	PQL	mg/Kg	J	Q
BERYLLIUM	0.426		0.0169	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.0582	J	0.0464	MDL	0.106	PQL	mg/Kg	J	Z, Q
CHROMIUM	13.1		0.127	MDL	0.422	PQL	mg/Kg	J	Q, A
COBALT	4.45		0.0211	MDL	0.106	PQL	mg/Kg	J	Q, A
COPPER	5.49		0.0844	MDL	0.422	PQL	mg/Kg	J	Q
LEAD	4.09		0.0108	MDL	0.211	PQL	mg/Kg	J	E
NICKEL	7.01		0.106	MDL	0.422	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-156-SA7-SB-7.5-8.5	Collected: 9/21/2011 2:43:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.293		0.0317	MDL	0.106	PQL	mg/Kg	J	Q, E
VANADIUM	25.9		0.0232	MDL	0.106	PQL	mg/Kg	J	Q, A

Sample ID: SL-158-SA7-SB-4.0-5.0	Collected: 9/21/2011 10:51:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.149	J	0.0583	MDL	0.402	PQL	mg/Kg	J	Z, Q

Sample ID: SL-158-SA7-SB-4.0-5.0	Collected: 9/21/2011 10:51:00	Analysis Type: REA3	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.664		0.0503	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-158-SA7-SB-4.0-5.0	Collected: 9/21/2011 10:51:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0744	U	0.0744	MDL	0.201	PQL	mg/Kg	UJ	Q
ARSENIC	4.62		0.0804	MDL	0.402	PQL	mg/Kg	J	Q
BERYLLIUM	0.590		0.0161	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.0829	J	0.0442	MDL	0.101	PQL	mg/Kg	J	Z, Q
CHROMIUM	14.2		0.121	MDL	0.402	PQL	mg/Kg	J	Q, A
COBALT	5.62		0.0201	MDL	0.101	PQL	mg/Kg	J	Q, A
COPPER	6.61		0.0804	MDL	0.402	PQL	mg/Kg	J	Q
LEAD	5.51		0.0103	MDL	0.201	PQL	mg/Kg	J	E
NICKEL	9.19		0.101	MDL	0.402	PQL	mg/Kg	J	Q, A
SILVER	0.0235	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.270		0.0302	MDL	0.101	PQL	mg/Kg	J	Q, E
VANADIUM	31.7		0.0221	MDL	0.101	PQL	mg/Kg	J	Q, A

Sample ID: SL-175-SA7-SS-0.0-0.5	Collected: 9/21/2011 9:00:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.111	J	0.0582	MDL	0.401	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Matrix:	SO
Method:	6020		

Sample ID: SL-175-SA7-SS-0.0-0.5 Collected: 9/21/2011 9:00:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.667		0.0502	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-175-SA7-SS-0.0-0.5 Collected: 9/21/2011 9:00:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.309		0.0742	MDL	0.201	PQL	mg/Kg	J	Q
ARSENIC	5.27		0.0803	MDL	0.401	PQL	mg/Kg	J	Q
BERYLLIUM	0.615		0.0161	MDL	0.100	PQL	mg/Kg	J	Q
CADMIUM	0.300		0.0441	MDL	0.100	PQL	mg/Kg	J	Q
CHROMIUM	21.5		0.120	MDL	0.401	PQL	mg/Kg	J	Q, A
COBALT	7.63		0.0201	MDL	0.100	PQL	mg/Kg	J	Q, A
COPPER	14.3		0.0803	MDL	0.401	PQL	mg/Kg	J	Q
LEAD	12.7		0.0102	MDL	0.201	PQL	mg/Kg	J	E
NICKEL	14.3		0.100	MDL	0.401	PQL	mg/Kg	J	Q, A
SILVER	0.0381	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q
THALLIUM	0.294		0.0301	MDL	0.100	PQL	mg/Kg	J	Q, E
VANADIUM	44.9		0.0221	MDL	0.100	PQL	mg/Kg	J	Q, A

Method Category:	METALS	Matrix:	SO
Method:	7199		

Sample ID: DUP04-SA7-QC-092111 Collected: 9/21/2011 10:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.37	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z, FD

Sample ID: SL-001-SA7-SS-0.0-0.5 Collected: 9/21/2011 8:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.48	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-056-SA7-SB-4.0-5.0 Collected: 9/21/2011 8:42:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.38	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-057-SA7-SB-3.0-4.0	Collected: 9/21/2011 8:05:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.34	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA7-SB-4.0-5.0	Collected: 9/21/2011 12:09:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.60	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA7-SB-7.0-8.0	Collected: 9/21/2011 12:13:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.57	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-120-SA7-SS-0.0-0.5	Collected: 9/21/2011 10:00:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.21	U	0.21	MDL	1.0	PQL	mg/Kg	UJ	FD

Sample ID: SL-123-SA7-SS-0.0-0.5	Collected: 9/21/2011 8:40:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.56	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-175-SA7-SS-0.0-0.5	Collected: 9/21/2011 9:00:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.46	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: DUP04-SA7-QC-092111	Collected: 9/21/2011 10:05:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0233	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 7471A **Matrix:** SO

Sample ID: SL-057-SA7-SB-3.0-4.0 Collected: 9/21/2011 8:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0099	J	0.0074	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-061-SA7-SS-0.0-0.5 Collected: 9/21/2011 11:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0320	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA7-SB-4.0-5.0 Collected: 9/21/2011 12:09:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0169	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA7-SB-7.0-8.0 Collected: 9/21/2011 12:13:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0078	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-119-SA7-SS-0.0-0.5 Collected: 9/21/2011 10:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0215	J	0.0069	MDL	0.0984	PQL	mg/Kg	J	Z

Sample ID: SL-120-SA7-SS-0.0-0.5 Collected: 9/21/2011 10:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0266	J	0.0068	MDL	0.0967	PQL	mg/Kg	J	Z

Sample ID: SL-121-SA7-SS-0.0-0.5 Collected: 9/21/2011 9:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0193	J	0.0069	MDL	0.0976	PQL	mg/Kg	J	Z

Sample ID: SL-123-SA7-SS-0.0-0.5 Collected: 9/21/2011 8:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0280	J	0.0067	MDL	0.0955	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 7471A **Matrix:** SO

Sample ID: SL-124-SA7-SS-0.0-0.5 Collected: 9/21/2011 8:20:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0286	J	0.0070	MDL	0.0999	PQL	mg/Kg	J	Z

Sample ID: SL-156-SA7-SB-4.0-5.0 Collected: 9/21/2011 2:39:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0078	J	0.0074	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-158-SA7-SB-4.0-5.0 Collected: 9/21/2011 10:51:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0094	J	0.0070	MDL	0.0989	PQL	mg/Kg	J	Z

Sample ID: SL-175-SA7-SS-0.0-0.5 Collected: 9/21/2011 9:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0159	J	0.0066	MDL	0.0942	PQL	mg/Kg	J	Z

Method Category: SVOA
Method: 1625C **Matrix:** AQ

Sample ID: EB-SA7-SS-092111 Collected: 9/21/2011 2:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	2.38		0.508	MDL	1.02	PQL	ng/L	UJ	B, S

Method Category: SVOA
Method: 8015M **Matrix:** SO

Sample ID: SL-123-SA7-SS-0.0-0.5 Collected: 9/21/2011 8:40:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	2.1	J	0.82	MDL	2.5	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-175-SA7-SS-0.0-0.5 Collected: 9/21/2011 9:00:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.96	J	0.81	MDL	2.4	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	8081A	Matrix: AQ

Sample ID: EB-SA7-SS-092111 Collected: 9/21/2011 2:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDRIN	0.0084	U	0.0084	MDL	0.021	PQL	ug/L	UJ	E

Method Category:	SVOA	
Method:	8081A	Matrix: SO

Sample ID: DUP04-SA7-QC-092111 Collected: 9/21/2011 10:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	1.3	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
4,4'-DDT	4.0		0.34	MDL	1.7	PQL	ug/Kg	J	FD
Chlordane	4.1	U	4.1	MDL	17	PQL	ug/Kg	UJ	FD
HEPTACHLOR EPOXIDE	0.30	J	0.17	MDL	0.85	PQL	ug/Kg	J	Z, FD

Sample ID: SL-001-SA7-SS-0.0-0.5 Collected: 9/21/2011 8:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	2.4	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z

Sample ID: SL-061-SA7-SS-0.0-0.5 Collected: 9/21/2011 11:50:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.040	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z
BETA-BHC	0.078	J	0.062	MDL	0.17	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8081A	Matrix:	SO
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Sample ID: SL-120-SA7-SS-0.0-0.5 Collected: 9/21/2011 10:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	2.1		0.34	MDL	1.7	PQL	ug/Kg	J	Q
4,4'-DDT	10		0.34	MDL	1.7	PQL	ug/Kg	J	FD
BETA-BHC	0.31	U	0.31	MDL	0.85	PQL	ug/Kg	R	Q
Chlordane	11	J	4.1	MDL	17	PQL	ug/Kg	J	Z, FD
ENDOSULFAN SULFATE	0.55	U	0.55	MDL	1.7	PQL	ug/Kg	R	Q
ENDRIN	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	R	Q
ENDRIN ALDEHYDE	0.44	U	0.44	MDL	1.7	PQL	ug/Kg	R	Q
ENDRIN KETONE	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	R	Q
HEPTACHLOR EPOXIDE	0.26	U	0.26	MDL	0.85	PQL	ug/Kg	UJ	FD

Sample ID: SL-121-SA7-SS-0.0-0.5 Collected: 9/21/2011 9:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	6.7	J	4.0	MDL	17	PQL	ug/Kg	J	Z

Sample ID: SL-123-SA7-SS-0.0-0.5 Collected: 9/21/2011 8:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.047	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z
Chlordane	1.4	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z
gamma-BHC (Lindane)	0.088	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-124-SA7-SS-0.0-0.5 Collected: 9/21/2011 8:20:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	1.2		0.068	MDL	0.35	PQL	ug/Kg	J	S
4,4'-DDT	1.3		0.068	MDL	0.35	PQL	ug/Kg	J	S

Sample ID: SL-175-SA7-SS-0.0-0.5 Collected: 9/21/2011 9:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	3.1	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z
gamma-BHC (Lindane)	0.052	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA		
Method:	8082	Matrix:	SO

Sample ID: DUP04-SA7-QC-092111 Collected: 9/21/2011 10:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	14		0.34	MDL	1.7	PQL	ug/Kg	J	FD
AROCLOR 1260	9.3		0.40	MDL	1.7	PQL	ug/Kg	J	FD
Aroclor 5460	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	FD

Sample ID: SL-001-SA7-SS-0.0-0.5 Collected: 9/21/2011 8:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.6	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	2.0	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-119-SA7-SS-0.0-0.5 Collected: 9/21/2011 10:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	1.9	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: SL-120-SA7-SS-0.0-0.5 Collected: 9/21/2011 10:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1242	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	Q
AROCLOR 1248	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	Q
AROCLOR 1254	2.8		0.34	MDL	1.7	PQL	ug/Kg	J	FD, Q
AROCLOR 1260	1.3	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z, FD, Q
Aroclor 5460	6.1		1.0	MDL	3.4	PQL	ug/Kg	J	FD

Sample ID: SL-123-SA7-SS-0.0-0.5 Collected: 9/21/2011 8:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.4	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-158-SA7-SB-4.0-5.0 Collected: 9/21/2011 10:51:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.52	J	0.40	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8151A	Matrix:	SO
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Sample ID: DUP04-SA7-QC-092111	Collected: 9/21/2011 10:05:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.14	J	0.084	MDL	0.17	PQL	ug/Kg	J	Z, S, FD
2,4,5-TP (Silvex)	0.077	U	0.077	MDL	0.17	PQL	ug/Kg	UJ	S, FD
2,4-D	1.2	U	1.2	MDL	3.7	PQL	ug/Kg	UJ	S
2,4-DB	0.64	U	0.64	MDL	1.7	PQL	ug/Kg	UJ	S
DALAPON	4.5	U	4.5	MDL	9.2	PQL	ug/Kg	UJ	S
DICAMBA	0.41	U	0.41	MDL	1.2	PQL	ug/Kg	UJ	S
DICHLOROPROP	0.82	U	0.82	MDL	1.7	PQL	ug/Kg	UJ	S
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L
MCPA	78	U	78	MDL	260	PQL	ug/Kg	UJ	S
MCPD	77	U	77	MDL	260	PQL	ug/Kg	UJ	S

Sample ID: SL-001-SA7-SS-0.0-0.5	Collected: 9/21/2011 8:00:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-061-SA7-SS-0.0-0.5	Collected: 9/21/2011 11:50:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.74	J	0.41	MDL	1.2	PQL	ug/Kg	J	Z
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-119-SA7-SS-0.0-0.5	Collected: 9/21/2011 10:35:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.11	J	0.076	MDL	0.17	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-120-SA7-SS-0.0-0.5	Collected: 9/21/2011 10:00:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.69		0.084	MDL	0.17	PQL	ug/Kg	J	Q, Q, FD
2,4,5-TP (Silvex)	0.087	J	0.077	MDL	0.17	PQL	ug/Kg	J	Z, Q, Q, FD
2,4-D	1.2	U	1.2	MDL	3.7	PQL	ug/Kg	R	Q
DALAPON	4.5	U	4.5	MDL	9.2	PQL	ug/Kg	R	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8151A	Matrix:	SO
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Sample ID: SL-120-SA7-SS-0.0-0.5	Collected: 9/21/2011 10:00:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.41	U	0.41	MDL	1.2	PQL	ug/Kg	R	Q
DICHLOROPROP	0.82	U	0.82	MDL	1.7	PQL	ug/Kg	UJ	Q
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	Q, L
MCPA	78	U	78	MDL	260	PQL	ug/Kg	R	Q
MCPP	77	U	77	MDL	260	PQL	ug/Kg	R	Q

Sample ID: SL-121-SA7-SS-0.0-0.5	Collected: 9/21/2011 9:35:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.13	J	0.083	MDL	0.17	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-123-SA7-SS-0.0-0.5	Collected: 9/21/2011 8:40:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.82	U	0.82	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-124-SA7-SS-0.0-0.5	Collected: 9/21/2011 8:20:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-175-SA7-SS-0.0-0.5	Collected: 9/21/2011 9:00:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Method Category:	SVOA	Method:	8270C	Matrix:	AQ
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Sample ID: EB-SA7-SS-092111	Collected: 9/21/2011 2:00:00	Analysis Type: RES-ACID	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	7	U	7	MDL	17	PQL	ug/L	UJ	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8270C **Matrix:** SO

Sample ID: DUP04-SA7-QC-092111 Collected: 9/21/2011 10:05:00 Analysis Type: RES-ACID Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	7300	J	4300	MDL	13000	PQL	ug/Kg	J	Z, FD
PHENANTHRENE	470	J	430	MDL	4300	PQL	ug/Kg	J	Z

Sample ID: SL-001-SA7-SS-0.0-0.5 Collected: 9/21/2011 8:00:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENOL	19	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-119-SA7-SS-0.0-0.5 Collected: 9/21/2011 10:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	190	J	84	MDL	840	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	85	J	84	MDL	1700	PQL	ug/Kg	J	Z
CHRYSENE	100	J	84	MDL	840	PQL	ug/Kg	J	Z
FLUORANTHENE	140	J	84	MDL	840	PQL	ug/Kg	J	Z

Sample ID: SL-120-SA7-SS-0.0-0.5 Collected: 9/21/2011 10:00:00 Analysis Type: RES-ACID Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	4300	U	4300	MDL	13000	PQL	ug/Kg	UJ	FD

Sample ID: SL-121-SA7-SS-0.0-0.5 Collected: 9/21/2011 9:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	1400	J	420	MDL	8300	PQL	ug/Kg	J	Z

Sample ID: SL-124-SA7-SS-0.0-0.5 Collected: 9/21/2011 8:20:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	32	J	17	MDL	340	PQL	ug/Kg	J	Z
Di-n-butylphthalate	24	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENOL	19	J	17	MDL	170	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8270C **Matrix:** SO

Sample ID: SL-158-SA7-SB-4.0-5.0 Collected: 9/21/2011 10:51:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	28	J	17	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-175-SA7-SS-0.0-0.5 Collected: 9/21/2011 9:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	72	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	24	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	23	J	17	MDL	170	PQL	ug/Kg	J	Z

Method Category: SVOA
Method: 8270C SIM **Matrix:** AQ

Sample ID: EB-SA7-SS-092111 Collected: 9/21/2011 2:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.16	J	0.056	MDL	1.1	PQL	ug/L	U	B
Diethylphthalate	0.35	J	0.056	MDL	1.1	PQL	ug/L	J	Z
Di-n-butylphthalate	0.83	J	0.056	MDL	1.1	PQL	ug/L	J	Z

Method Category: SVOA
Method: 8270C SIM **Matrix:** SO

Sample ID: DUP04-SA7-QC-092111 Collected: 9/21/2011 10:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	20	J	13	MDL	34	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	29	J	13	MDL	34	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	19	J	13	MDL	34	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	160	J	120	MDL	360	PQL	ug/Kg	J	Z, FD
DIBENZO(A,H)ANTHRACENE	17	J	13	MDL	34	PQL	ug/Kg	J	Z, FD
INDENO(1,2,3-CD)PYRENE	17	J	13	MDL	34	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8270C SIM **Matrix:** SO

Sample ID: SL-001-SA7-SS-0.0-0.5 Collected: 9/21/2011 8:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.95	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.4	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.99	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	6.1	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.1	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-057-SA7-SB-3.0-4.0 Collected: 9/21/2011 8:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.91	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-061-SA7-SS-0.0-0.5 Collected: 9/21/2011 11:50:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	13	J	6.9	MDL	17	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	100	J	62	MDL	180	PQL	ug/Kg	J	Z
CHRYSENE	6.0	J	3.4	MDL	17	PQL	ug/Kg	J	Z
FLUORANTHENE	7.5	J	6.9	MDL	17	PQL	ug/Kg	J	Z

Sample ID: SL-078-SA7-SB-4.0-5.0 Collected: 9/21/2011 12:09:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-119-SA7-SS-0.0-0.5 Collected: 9/21/2011 10:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	24	J	13	MDL	33	PQL	ug/Kg	J	Z
PYRENE	15	J	13	MDL	33	PQL	ug/Kg	J	Z

Sample ID: SL-120-SA7-SS-0.0-0.5 Collected: 9/21/2011 10:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	23	J	14	MDL	34	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	24	J	14	MDL	34	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8270C SIM **Matrix:** SO

Sample ID: SL-120-SA7-SS-0.0-0.5 **Collected:** 9/21/2011 10:00:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	25	J	14	MDL	34	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	340	J	120	MDL	370	PQL	ug/Kg	J	Z, FD
DIBENZO(A,H)ANTHRACENE	14	U	14	MDL	34	PQL	ug/Kg	UJ	FD
INDENO(1,2,3-CD)PYRENE	14	J	14	MDL	34	PQL	ug/Kg	J	Z

Sample ID: SL-121-SA7-SS-0.0-0.5 **Collected:** 9/21/2011 9:35:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	20	J	13	MDL	33	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	26	J	13	MDL	33	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	17	J	13	MDL	33	PQL	ug/Kg	J	Z
FLUORANTHENE	20	J	13	MDL	33	PQL	ug/Kg	J	Z
PYRENE	14	J	13	MDL	33	PQL	ug/Kg	J	Z

Sample ID: SL-123-SA7-SS-0.0-0.5 **Collected:** 9/21/2011 8:40:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	11	J	6.7	MDL	17	PQL	ug/Kg	J	Z
CHRYSENE	9.6	J	3.4	MDL	17	PQL	ug/Kg	J	Z
PHENANTHRENE	16	J	6.7	MDL	17	PQL	ug/Kg	J	Z

Sample ID: SL-124-SA7-SS-0.0-0.5 **Collected:** 9/21/2011 8:20:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.64	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	9.9	J	6.2	MDL	19	PQL	ug/Kg	J	Z
NAPHTHALENE	1.2	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-156-SA7-SB-4.0-5.0 **Collected:** 9/21/2011 2:39:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.7	J	6.5	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8270C SIM **Matrix:** SO

Sample ID: SL-175-SA7-SS-0.0-0.5 Collected: 9/21/2011 9:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	9.5	J	3.4	MDL	17	PQL	ug/Kg	J	Z

Method Category: VOA
Method: 8015B **Matrix:** SO

Sample ID: SL-175-SA7-SS-0.0-0.5 Collected: 9/21/2011 9:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	220	J	100	MDL	510	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: PrepDE250_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE250

Method Blank Outlier Report

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: DE250_v1.

eQAPP Name: CDM_SSFL_110509

Method:	1625C
Matrix:	AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWA26B261601	10/3/2011 4:01:00 PM	N-NITROSODIMETHYLAMINE	1.47 ng/L	EB-SA7-SS-092111

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SS-092111(RES)	N-NITROSODIMETHYLAMINE	2.38 ng/L	2.38U ng/L

Method:	6010B
Matrix:	SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P26608BB222102	9/30/2011 9:02:00 PM	CALCIUM MAGNESIUM MANGANESE PHOSPHORUS STRONTIUM TIN	7.08 mg/Kg 0.811 mg/Kg 0.0490 mg/Kg 1.23 mg/Kg 0.0390 mg/Kg 1.55 mg/Kg	DUP04-SA7-QC-092111 SL-001-SA7-SS-0.0-0.5 SL-056-SA7-SB-4.0-5.0 SL-057-SA7-SB-3.0-4.0 SL-061-SA7-SS-0.0-0.5 SL-078-SA7-SB-4.0-5.0 SL-078-SA7-SB-7.0-8.0 SL-119-SA7-SS-0.0-0.5 SL-120-SA7-SS-0.0-0.5 SL-121-SA7-SS-0.0-0.5 SL-123-SA7-SS-0.0-0.5 SL-124-SA7-SS-0.0-0.5 SL-156-SA7-SB-4.0-5.0 SL-156-SA7-SB-7.5-8.5 SL-158-SA7-SB-4.0-5.0 SL-175-SA7-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP04-SA7-QC-092111(REA2)	TIN	6.59 mg/Kg	6.59U mg/Kg
SL-001-SA7-SS-0.0-0.5(REA2)	TIN	3.11 mg/Kg	3.11U mg/Kg
SL-056-SA7-SB-4.0-5.0(REA2)	TIN	3.12 mg/Kg	3.12U mg/Kg
SL-057-SA7-SB-3.0-4.0(REA2)	TIN	3.09 mg/Kg	3.09U mg/Kg
SL-061-SA7-SS-0.0-0.5(REA2)	TIN	3.09 mg/Kg	3.09U mg/Kg
SL-078-SA7-SB-4.0-5.0(REA2)	TIN	3.29 mg/Kg	3.29U mg/Kg
SL-078-SA7-SB-7.0-8.0(REA2)	TIN	3.42 mg/Kg	3.42U mg/Kg
SL-119-SA7-SS-0.0-0.5(REA2)	TIN	3.04 mg/Kg	3.04U mg/Kg
SL-120-SA7-SS-0.0-0.5(REA2)	TIN	3.30 mg/Kg	3.30U mg/Kg
SL-121-SA7-SS-0.0-0.5(REA2)	TIN	2.94 mg/Kg	2.94U mg/Kg
SL-123-SA7-SS-0.0-0.5(REA2)	TIN	2.93 mg/Kg	2.93U mg/Kg
SL-124-SA7-SS-0.0-0.5(REA2)	TIN	3.23 mg/Kg	3.23U mg/Kg
SL-156-SA7-SB-4.0-5.0(REA2)	TIN	3.23 mg/Kg	3.23U mg/Kg
SL-156-SA7-SB-7.5-8.5(REA2)	TIN	2.96 mg/Kg	2.96U mg/Kg
SL-158-SA7-SB-4.0-5.0(REA2)	TIN	2.97 mg/Kg	2.97U mg/Kg

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: DE250_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-175-SA7-SS-0.0-0.5(REA2)	TIN	3.10 mg/Kg	3.10U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P26626AB221131A	9/26/2011 11:31:00 AM	LEAD	0.0136 mg/Kg	DUP04-SA7-QC-092111 SL-001-SA7-SS-0.0-0.5 SL-056-SA7-SB-4.0-5.0 SL-057-SA7-SB-3.0-4.0 SL-061-SA7-SS-0.0-0.5 SL-078-SA7-SB-4.0-5.0 SL-078-SA7-SB-7.0-8.0 SL-119-SA7-SS-0.0-0.5 SL-120-SA7-SS-0.0-0.5 SL-121-SA7-SS-0.0-0.5 SL-123-SA7-SS-0.0-0.5 SL-124-SA7-SS-0.0-0.5 SL-156-SA7-SB-4.0-5.0 SL-156-SA7-SB-7.5-8.5 SL-158-SA7-SB-4.0-5.0 SL-175-SA7-SS-0.0-0.5

Method: 8015B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P70706AB320238A	9/29/2011 2:38:00 AM	METHANOL	240 ug/L	EB-SA7-SS-092111

Method: 8270C SIM
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWI26B262107	10/1/2011 9:07:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE	0.13 ug/L	EB-SA7-SS-092111

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SS-092111(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.16 ug/L	1.1U ug/L

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/16/2012 9:11:14 AM

ADR version 1.4.0.111

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: DE250_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-120-SA7-SS-0.0-0.5MS (SL-120-SA7-SS-0.0-0.5)	AROCLOR 1260	34	-	39.00-149.00	-	AROCLOR 1260, AROCLOR 1242, AROCLOR 1248, AROCLOR 1254	J (all detects) UJ (all non-detects)

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-120-SA7-SS-0.0-0.5MSD (SL-120-SA7-SS-0.0-0.5)	ETHANOL Isopropanol METHANOL	- - -	- - -	48.00-130.00 12.00-149.00 43.00-138.00	46 (20.00) 59 (20.00) 36 (20.00)	ETHANOL Isopropanol METHANOL	J(all detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-120-SA7-SS-0.0-0.5MS SL-120-SA7-SS-0.0-0.5MSD (SL-120-SA7-SS-0.0-0.5)	4,4'-DDD ALPHA-BHC	166 -	212 -	16.00-163.00 10.00-129.00	- 67 (50.00)	4,4'-DDD ALPHA-BHC	J(all detects)
SL-120-SA7-SS-0.0-0.5MS SL-120-SA7-SS-0.0-0.5MSD (SL-120-SA7-SS-0.0-0.5)	4,4'-DDE 4,4'-DDT BETA-BHC ENDOSULFAN SULFATE ENDRIN ENDRIN ALDEHYDE ENDRIN KETONE	-25 -243 - 175 0 0 -	-1 -389 0 0 0 185 0	18.00-161.00 10.00-176.00 14.00-147.00 21.00-160.00 11.00-149.00 10.00-148.00 22.00-165.00	- - 200 (50.00) 200 (50.00) - 200 (35.00) 200 (50.00)	4,4'-DDE 4,4'-DDT BETA-BHC ENDOSULFAN SULFATE ENDRIN ENDRIN ALDEHYDE ENDRIN KETONE	J(all detects) R(all non-detects) 4,4'-DDT, No Qual, >4x

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-120-SA7-SS-0.0-0.5MSD (SL-120-SA7-SS-0.0-0.5)	2,4-DB	-	-	10.00-201.00	61 (50.00)	2,4-DB	J(all detects)
SL-120-SA7-SS-0.0-0.5MS SL-120-SA7-SS-0.0-0.5MSD (SL-120-SA7-SS-0.0-0.5)	2,4,5-T 2,4-D DALAPON DICAMBA DINOSEB MCPA MCPP	-65 0 0 0 0 0 0	-36 0 0 0 0 0 -	10.00-156.00 17.00-180.00 10.00-125.00 10.00-190.00 10.00-46.00 10.00-213.00 10.00-184.00	100 (35.00) - - - - - 200 (50.00)	2,4,5-T 2,4-D DALAPON DICAMBA DINOSEB MCPA MCPP	J(all detects) R(all non-detects)
SL-120-SA7-SS-0.0-0.5MS SL-120-SA7-SS-0.0-0.5MSD (SL-120-SA7-SS-0.0-0.5)	2,4,5-TP (Silvex) DICHLOROPROP	10 20	- 30	24.00-141.00 33.00-178.00	74 (35.00) -	2,4,5-TP (Silvex) DICHLOROPROP	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: DE250_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-120-SA7-SS-0.0-0.5MS SL-120-SA7-SS-0.0-0.5MSD (SL-120-SA7-SS-0.0-0.5)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	0 0 -20557 -58067 0	0 0 -9238 -1494 0	49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00	- - 29 (20.00) 49 (20.00) -	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	No Qual, Diluted Out
SL-120-SA7-SS-0.0-0.5MS SL-120-SA7-SS-0.0-0.5MSD (SL-120-SA7-SS-0.0-0.5)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	5 30 42	7 31 42	59.00-109.00 63.00-107.00 63.00-107.00	21 (20.00) - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	No Qual, Diluted Out

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-120-SA7-SS-0.0-0.5MS SL-120-SA7-SS-0.0-0.5MSD (DUP04-SA7-QC-092111 SL-001-SA7-SS-0.0-0.5 SL-056-SA7-SB-4.0-5.0 SL-057-SA7-SB-3.0-4.0 SL-061-SA7-SS-0.0-0.5 SL-078-SA7-SB-4.0-5.0 SL-078-SA7-SB-7.0-8.0 SL-119-SA7-SS-0.0-0.5 SL-120-SA7-SS-0.0-0.5 SL-121-SA7-SS-0.0-0.5 SL-123-SA7-SS-0.0-0.5 SL-124-SA7-SS-0.0-0.5 SL-156-SA7-SB-4.0-5.0 SL-156-SA7-SB-7.5-8.5 SL-158-SA7-SB-4.0-5.0 SL-175-SA7-SS-0.0-0.5)	ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER VANADIUM	134 - - 185 - - 159 128 - - -	200 139 145 186 141 163 325 182 139 178	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - - - - -	ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER VANADIUM	J(all detects) Pb, No Qual, >4x
SL-120-SA7-SS-0.0-0.5MS SL-120-SA7-SS-0.0-0.5MSD (DUP04-SA7-QC-092111 SL-001-SA7-SS-0.0-0.5 SL-056-SA7-SB-4.0-5.0 SL-057-SA7-SB-3.0-4.0 SL-061-SA7-SS-0.0-0.5 SL-078-SA7-SB-4.0-5.0 SL-078-SA7-SB-7.0-8.0 SL-119-SA7-SS-0.0-0.5 SL-120-SA7-SS-0.0-0.5 SL-121-SA7-SS-0.0-0.5 SL-123-SA7-SS-0.0-0.5 SL-124-SA7-SS-0.0-0.5 SL-156-SA7-SB-4.0-5.0 SL-156-SA7-SB-7.5-8.5 SL-158-SA7-SB-4.0-5.0 SL-175-SA7-SS-0.0-0.5)	ANTIMONY THALLIUM ZINC	44 - 228	54 146 62	75.00-125.00 75.00-125.00 75.00-125.00	- 21 (20.00) -	ANTIMONY THALLIUM ZINC	J(all detects) UJ(all non-detects) Zn, No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: DE250_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-120-SA7-SS-0.0-0.5MSD (DUP04-SA7-QC-092111 SL-001-SA7-SS-0.0-0.5 SL-056-SA7-SB-4.0-5.0 SL-057-SA7-SB-3.0-4.0 SL-061-SA7-SS-0.0-0.5 SL-078-SA7-SB-4.0-5.0 SL-078-SA7-SB-7.0-8.0 SL-119-SA7-SS-0.0-0.5 SL-120-SA7-SS-0.0-0.5 SL-121-SA7-SS-0.0-0.5 SL-123-SA7-SS-0.0-0.5 SL-124-SA7-SS-0.0-0.5 SL-156-SA7-SB-4.0-5.0 SL-156-SA7-SB-7.5-8.5 SL-158-SA7-SB-4.0-5.0 SL-175-SA7-SS-0.0-0.5)	SELENIUM	-	134	75.00-125.00	-	SELENIUM	J(all detects)
SL-120-SA7-SS-0.0-0.5MSD (DUP04-SA7-QC-092111 SL-001-SA7-SS-0.0-0.5 SL-056-SA7-SB-4.0-5.0 SL-057-SA7-SB-3.0-4.0 SL-061-SA7-SS-0.0-0.5 SL-078-SA7-SB-4.0-5.0 SL-078-SA7-SB-7.0-8.0 SL-119-SA7-SS-0.0-0.5 SL-120-SA7-SS-0.0-0.5 SL-121-SA7-SS-0.0-0.5 SL-123-SA7-SS-0.0-0.5 SL-124-SA7-SS-0.0-0.5 SL-156-SA7-SB-4.0-5.0 SL-156-SA7-SB-7.5-8.5 SL-158-SA7-SB-4.0-5.0 SL-175-SA7-SS-0.0-0.5)	MOLYBDENUM	-	141	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-120-SA7-SS-0.0-0.5MS SL-120-SA7-SS-0.0-0.5MSD (DUP04-SA7-QC-092111 SL-001-SA7-SS-0.0-0.5 SL-056-SA7-SB-4.0-5.0 SL-057-SA7-SB-3.0-4.0 SL-061-SA7-SS-0.0-0.5 SL-078-SA7-SB-4.0-5.0 SL-078-SA7-SB-7.0-8.0 SL-119-SA7-SS-0.0-0.5 SL-120-SA7-SS-0.0-0.5 SL-121-SA7-SS-0.0-0.5 SL-123-SA7-SS-0.0-0.5 SL-124-SA7-SS-0.0-0.5 SL-156-SA7-SB-4.0-5.0 SL-156-SA7-SB-7.5-8.5 SL-158-SA7-SB-4.0-5.0 SL-175-SA7-SS-0.0-0.5)	BARIUM	146	320	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: DE250_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-120-SA7-SS-0.0-0.5MS SL-120-SA7-SS-0.0-0.5MSD (DUP04 -SA7-QC-092111 SL -001 -SA7-SS-0.0-0.5 SL -056 -SA7-SB-4.0-5.0 SL -057 -SA7-SB-3.0-4.0 SL -061 -SA7-SS-0.0-0.5 SL -078 -SA7-SB-4.0-5.0 SL -078 -SA7-SB-7.0-8.0 SL -119 -SA7-SS-0.0-0.5 SL -120 -SA7-SS-0.0-0.5 SL -121 -SA7-SS-0.0-0.5 SL -123 -SA7-SS-0.0-0.5 SL -124 -SA7-SS-0.0-0.5 SL -156 -SA7-SB-4.0-5.0 SL -156 -SA7-SB-7.5-8.5 SL -158 -SA7-SB-4.0-5.0 SL -175 -SA7-SS-0.0-0.5)	ALUMINUM MAGNESIUM POTASSIUM TITANIUM	1509 155 132 285	1681 213 138 248	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM MAGNESIUM POTASSIUM TITANIUM	J(all detects) Al, Mg, Ti, No Qual, >4x
SL-120-SA7-SS-0.0-0.5MS (DUP04 -SA7-QC-092111 SL -001 -SA7-SS-0.0-0.5 SL -056 -SA7-SB-4.0-5.0 SL -057 -SA7-SB-3.0-4.0 SL -061 -SA7-SS-0.0-0.5 SL -078 -SA7-SB-4.0-5.0 SL -078 -SA7-SB-7.0-8.0 SL -119 -SA7-SS-0.0-0.5 SL -120 -SA7-SS-0.0-0.5 SL -121 -SA7-SS-0.0-0.5 SL -123 -SA7-SS-0.0-0.5 SL -124 -SA7-SS-0.0-0.5 SL -156 -SA7-SB-4.0-5.0 SL -156 -SA7-SB-7.5-8.5 SL -158 -SA7-SB-4.0-5.0 SL -175 -SA7-SS-0.0-0.5)	MANGANESE PHOSPHORUS	53 73	- -	75.00-125.00 75.00-125.00	- -	MANGANESE PHOSPHORUS	No Qual, >4x

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-120-SA7-SS-0.0-0.5MS SL-120-SA7-SS-0.0-0.5MSD (SL-120-SA7-SS-0.0-0.5)	2-METHYLNAPHTHALENE ACENAPHTHENE ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE CHRYSENE Di-n-octylphthalate FLUORANTHENE NAPHTHALENE PHENANTHRENE PYRENE	107 113 127 168 402 215 219 407 350 106 264 322	- - 122 143 248 197 - 420 - - 130 146	64.00-103.00 63.00-105.00 73.00-115.00 58.00-142.00 54.00-163.00 57.00-153.00 67.00-123.00 40.00-192.00 51.00-149.00 61.00-102.00 62.00-122.00 51.00-131.00	- - - - - - - - 42 (30.00) - - 37 (30.00) 38 (30.00)	2-METHYLNAPHTHALENE ACENAPHTHENE ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE CHRYSENE Di-n-octylphthalate FLUORANTHENE NAPHTHALENE PHENANTHRENE PYRENE	No Qual, Diluted Out
SL-120-SA7-SS-0.0-0.5MS SL-120-SA7-SS-0.0-0.5MSD (SL-120-SA7-SS-0.0-0.5)	BIS(2-ETHYLHEXYL)PHTHALAT Butylbenzylphthalate Diethylphthalate Dimethylphthalate Di-n-butylphthalate	508 0 0 0 0	-433 881 0 0 0	39.00-167.00 57.00-173.00 70.00-136.00 74.00-118.00 65.00-148.00	90 (30.00) 200 (30.00) - - -	BIS(2-ETHYLHEXYL)PHTHALA Butylbenzylphthalate Diethylphthalate Dimethylphthalate Di-n-butylphthalate	No Qual, Diluted Out
SL-120-SA7-SS-0.0-0.5MSD (SL-120-SA7-SS-0.0-0.5)	BENZO(G,H,I)PERYLENE	-	9	33.00-141.00	36 (30.00)	BENZO(G,H,I)PERYLENE	No Qual, Diluted Out

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: DE250_v1.

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-057-SA7-SB-3.0-4.0MS (SL-057-SA7-SB-3.0-4.0 SL-078-SA7-SB-4.0-5.0 SL-078-SA7-SB-7.0-8.0 SL-156-SA7-SB-4.0-5.0 SL-156-SA7-SB-7.5-8.5 SL-158-SA7-SB-4.0-5.0)	FLUORIDE	54	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-120-SA7-SS-0.0-0.5MS SL-120-SA7-SS-0.0-0.5MSD (SL-120-SA7-SS-0.0-0.5)	4,6-DINITRO-2-METHYLPHENOL ACENAPHTHYLENE Butylbenzylphthalate	293 - 291	286 111 -	11.00-126.00 81.00-110.00 73.00-134.00	- - 84 (30.00)	4,6-DINITRO-2-METHYLPHEN ACENAPHTHYLENE Butylbenzylphthalate	No Qual, Diluted Out
SL-120-SA7-SS-0.0-0.5MS SL-120-SA7-SS-0.0-0.5MSD (SL-120-SA7-SS-0.0-0.5)	2,4-DINITROPHENOL 3,3'-DICHLOROBENZIDINE 4-CHLOROANILINE 4-NITROANILINE 4-NITROPHENOL ANILINE BENZIDINE BENZOIC ACID BENZYL ALCOHOL HEXACHLOROBUTADIENE HEXACHLOROCYCLOPENTADI PENTACHLOROPHENOL	0 0 0 0 0 0 0 0 0 0 0 0	276 0 0 0 0 0 0 0 0 0 0 0	20.00-143.00 28.00-109.00 23.00-95.00 52.00-112.00 37.00-113.00 18.00-116.00 35.00-141.00 10.00-173.00 67.00-115.00 62.00-120.00 10.00-153.00 28.00-127.00	- - - - - - - - - - - -	2,4-DINITROPHENOL 3,3'-DICHLOROBENZIDINE 4-CHLOROANILINE 4-NITROANILINE 4-NITROPHENOL ANILINE BENZIDINE BENZOIC ACID BENZYL ALCOHOL HEXACHLOROBUTADIENE HEXACHLOROCYCLOPENTAD PENTACHLOROPHENOL	No Qual, Diluted Out

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-120-SA7-SS-0.0-0.5MS SL-120-SA7-SS-0.0-0.5MSD (DUPO4-SA7-QC-092111 SL-001-SA7-SS-0.0-0.5 SL-056-SA7-SB-4.0-5.0 SL-057-SA7-SB-3.0-4.0 SL-061-SA7-SS-0.0-0.5 SL-078-SA7-SB-4.0-5.0 SL-078-SA7-SB-7.0-8.0 SL-119-SA7-SS-0.0-0.5 SL-120-SA7-SS-0.0-0.5 SL-121-SA7-SS-0.0-0.5 SL-123-SA7-SS-0.0-0.5 SL-124-SA7-SS-0.0-0.5 SL-156-SA7-SB-4.0-5.0 SL-156-SA7-SB-7.5-8.5 SL-158-SA7-SB-4.0-5.0 SL-175-SA7-SS-0.0-0.5)	IRON	-913	431	75.00-125.00	-	IRON	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: DE250_v1.

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-120-SA7-SS-0.0-0.5DUP (DUP04-SA7-QC-092111 SL-001-SA7-SS-0.0-0.5 SL-056-SA7-SB-4.0-5.0 SL-061-SA7-SS-0.0-0.5 SL-119-SA7-SS-0.0-0.5 SL-120-SA7-SS-0.0-0.5 SL-121-SA7-SS-0.0-0.5 SL-123-SA7-SS-0.0-0.5 SL-124-SA7-SS-0.0-0.5 SL-175-SA7-SS-0.0-0.5)	FLUORIDE	2.8 mg/kg	2.0 mg/kg	J (all detects) UJ (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-120-SA7-SS-0.0-0.5DUP (DUP04-SA7-QC-092111 SL-001-SA7-SS-0.0-0.5 SL-056-SA7-SB-4.0-5.0 SL-057-SA7-SB-3.0-4.0 SL-061-SA7-SS-0.0-0.5 SL-078-SA7-SB-4.0-5.0 SL-078-SA7-SB-7.0-8.0 SL-119-SA7-SS-0.0-0.5 SL-120-SA7-SS-0.0-0.5 SL-121-SA7-SS-0.0-0.5 SL-123-SA7-SS-0.0-0.5 SL-124-SA7-SS-0.0-0.5 SL-156-SA7-SB-4.0-5.0 SL-156-SA7-SB-7.5-8.5 SL-158-SA7-SB-4.0-5.0 SL-175-SA7-SS-0.0-0.5)	LEAD	71	20.00	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: DE250_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8081A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12675AY240243A (EB-SA7-SS-092111)	ENDRIN	-	-	52.00-132.00	43 (30.00)	ENDRIN	J (all detects) UJ (all non-detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7WHLCSY262257 (EB-SA7-SS-092111)	NITROBENZENE	-	111	75.00-109.00	-	NITROBENZENE	J(all detects)
P7WHLCSY262257 (EB-SA7-SS-092111)	BENZOIC ACID	-	-	10.00-69.00	31 (30.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12691AQ242037A (DUP04 -SA7-QC-092111 SL -001-SA7-SS-0.0-0.5 SL -061-SA7-SS-0.0-0.5 SL -119-SA7-SS-0.0-0.5 SL -120-SA7-SS-0.0-0.5 SL -121-SA7-SS-0.0-0.5 SL -123-SA7-SS-0.0-0.5 SL -124-SA7-SS-0.0-0.5 SL -175-SA7-SS-0.0-0.5)	DINOSEB	8	-	10.00-36.00	-	DINOSEB	J(all detects) R(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P26608BQ222106 (DUP04 -SA7-QC-092111 SL -001-SA7-SS-0.0-0.5 SL -056-SA7-SB-4.0-5.0 SL -057-SA7-SB-3.0-4.0 SL -061-SA7-SS-0.0-0.5 SL -078-SA7-SB-4.0-5.0 SL -078-SA7-SB-7.0-8.0 SL -119-SA7-SS-0.0-0.5 SL -120-SA7-SS-0.0-0.5 SL -121-SA7-SS-0.0-0.5 SL -123-SA7-SS-0.0-0.5 SL -124-SA7-SS-0.0-0.5 SL -156-SA7-SB-4.0-5.0 SL -156-SA7-SB-7.5-8.5 SL -158-SA7-SB-4.0-5.0 SL -175-SA7-SS-0.0-0.5)	ALUMINIUM MAGNESIUM	147 125	- -	80.00-120.00 80.00-120.00	- -	ALUMINIUM MAGNESIUM	No Qual, SRM within QC Limits

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: DE250_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7LDLCSQ260623 (DUP04-SA7-QC-092111 SL -001-SA7-SS-0.0-0.5 SL -056-SA7-SB-4.0-5.0 SL -057-SA7-SB-3.0-4.0 SL -061-SA7-SS-0.0-0.5 SL -078-SA7-SB-4.0-5.0 SL -078-SA7-SB-7.0-8.0 SL -119-SA7-SS-0.0-0.5 SL -120-SA7-SS-0.0-0.5 SL -121-SA7-SS-0.0-0.5 SL -123-SA7-SS-0.0-0.5 SL -124-SA7-SS-0.0-0.5 SL -156-SA7-SB-4.0-5.0 SL -156-SA7-SB-7.5-8.5 SL -158-SA7-SB-4.0-5.0 SL -175-SA7-SS-0.0-0.5)	2,4,5-TRICHLOROPHENOL 2,4,6-TRICHLOROPHENOL ANTHRACENE	108 112 114	- - -	76.00-107.00 78.00-111.00 76.00-112.00	- - -	2,4,5-TRICHLOROPHENOL 2,4,6-TRICHLOROPHENOL ANTHRACENE	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: DE250_v1.

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA7-SS-092111	N-Nitrosodimethylamine-d6	264	50.00-150.00	All Target Analytes	J(all detects)

Method: 1625C
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-056-SA7-SB-4.0-5.0	N-Nitrosodimethylamine-d6	351	50.00-150.00	All Target Analytes	J(all detects)
SL-057-SA7-SB-3.0-4.0	N-Nitrosodimethylamine-d6	373	50.00-150.00	All Target Analytes	J(all detects)

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP04-SA7-QC-092111	n-Triacontane-d62	2080	19.00-152.00	All Target Analytes	J (all detects)
SL-061-SA7-SS-0.0-0.5	n-Triacontane-d62	223	19.00-152.00	All Target Analytes	J(all detects)
SL-119-SA7-SS-0.0-0.5	n-Triacontane-d62	226	19.00-152.00	All Target Analytes	J(all detects)
SL-120-SA7-SS-0.0-0.5	n-Triacontane-d62	279	19.00-152.00	All Target Analytes	J(all detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP04-SA7-QC-092111	DECACHLOROBIPHENYL	372	20.00-120.00	All Target Analytes	No Qual, Diluted Out
SL-119-SA7-SS-0.0-0.5	DECACHLOROBIPHENYL	176	20.00-120.00	All Target Analytes	No Qual, Diluted Out
SL-120-SA7-SS-0.0-0.5	DECACHLOROBIPHENYL	400	20.00-120.00	All Target Analytes	No Qual, Diluted Out
SL-121-SA7-SS-0.0-0.5	DECACHLOROBIPHENYL	287	20.00-120.00	All Target Analytes	No Qual, Diluted Out
SL-121-SA7-SS-0.0-0.5	TETRACHLORO-M-XYLENE	45	50.00-130.00	All Target Analytes	No Qual, Diluted Out
SL-124-SA7-SS-0.0-0.5	DECACHLOROBIPHENYL	249	20.00-120.00	All Target Analytes	J(all detects)

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Surrogate Outlier Report

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: DE250_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-121-SA7-SS-0.0-0.5	TETRACHLORO-M-XYLENE	35	53.00-139.00	All Target Analytes	No Qual, Diluted Out

Method: 8151A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP04-SA7-QC-092111	2,4-Dichlorophenylacetic acid	31	36.00-156.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA7-SS-092111	Nitrobenzene-d5	169	40.00-130.00	No Affected Compounds	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: DE250_v1.

eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA7-SS-0.0-0.5	DUP04-SA7-QC-092111			
MOISTURE	2.5	2.4	4		No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA7-SS-0.0-0.5	DUP04-SA7-QC-092111			
ALUMINIUM	15300	14700	4	50.00	No Qualifiers Applied
BORON	4.77	3.78	23	50.00	
CALCIUM	4560	3990	13	50.00	
IRON	19300	20300	5	50.00	
LITHIUM	19.4	18.8	3	50.00	
MAGNESIUM	4020	3780	6	50.00	
MANGANESE	289	259	11	50.00	
PHOSPHORUS	445	441	1	50.00	
POTASSIUM	3920	3810	3	50.00	
SODIUM	84.3	80.4	5	50.00	
STRONTIUM	23.2	20.8	11	50.00	
TITANIUM	1090	1130	4	50.00	
Zirconium	3.08	3.13	2	50.00	
TIN	3.30	6.59	67	50.00	J(all detects)

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA7-SS-0.0-0.5	DUP04-SA7-QC-092111			
ANTIMONY	0.261	0.264	1	50.00	No Qualifiers Applied
ARSENIC	4.05	4.81	17	50.00	
BARIUM	101	107	6	50.00	
BERYLLIUM	0.550	0.578	5	50.00	
CADMIUM	0.466	0.499	7	50.00	
CHROMIUM	20.4	21.0	3	50.00	
COBALT	6.02	6.80	12	50.00	
COPPER	13.2	14.4	9	50.00	
LEAD	24.9	30.1	19	50.00	
MOLYBDENUM	0.810	0.947	16	50.00	
NICKEL	16.4	16.6	1	50.00	
SELENIUM	0.194	0.161	19	50.00	
SILVER	0.0531	0.0652	20	50.00	
THALLIUM	0.282	0.257	9	50.00	
VANADIUM	36.9	40.1	8	50.00	
ZINC	172	176	2	50.00	

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA7-SS-0.0-0.5	DUP04-SA7-QC-092111			
HEXAVALENT CHROMIUM	1.0 U	0.37	200	50.00	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Field Duplicate RPD Report

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: DE250_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7471A

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA7-SS-0.0-0.5	DUP04-SA7-QC-092111			
MERCURY	0.0266	0.0233	13	50.00	No Qualifiers Applied

Method: 8015M

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA7-SS-0.0-0.5	DUP04-SA7-QC-092111			
EFH (C21-C30)	1200	1000	18	50.00	No Qualifiers Applied
EFH (C30-C40)	3700	3300	11	50.00	

Method: 8081A

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA7-SS-0.0-0.5	DUP04-SA7-QC-092111			
4,4'-DDE	2.1	1.3	47	50.00	No Qualifiers Applied
4,4'-DDT	10	4.0	86	50.00	J(all detects) UJ(all non-detects)
Chlordane	11	17 U	200	50.00	
HEPTACHLOR EPOXIDE	0.85 U	0.30	200	50.00	

Method: 8082

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA7-SS-0.0-0.5	DUP04-SA7-QC-092111			
AROCLOR 1254	2.8	14	133	50.00	J(all detects) UJ(all non-detects)
AROCLOR 1260	1.3	9.3	151	50.00	
Aroclor 5460	6.1	3.4 U	200	50.00	

Method: 8151A

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA7-SS-0.0-0.5	DUP04-SA7-QC-092111			
2,4,5-T	0.69	0.14	133	50.00	J(all detects) UJ(all non-detects)
2,4,5-TP (Silvex)	0.087	0.17 U	200	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: DE250_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA7-SS-0.0-0.5	DUP04-SA7-QC-092111			
BENZO(A)ANTHRACENE	23	20	14	50.00	No Qualifiers Applied
BENZO(A)PYRENE	34	29	16	50.00	
BENZO(B)FLUORANTHENE	110	89	21	50.00	
BENZO(G,H,I)PERYLENE	24	35	37	50.00	
BENZO(K)FLUORANTHENE	25	19	27	50.00	
CHRYSENE	110	110	0	50.00	
FLUORANTHENE	98	75	27	50.00	
INDENO(1,2,3-CD)PYRENE	14	17	19	50.00	
PYRENE	78	49	46	50.00	
BIS(2-ETHYLHEXYL)PHTHALATE	340	160	72	50.00	
DIBENZO(A,H)ANTHRACENE	34 U	17	200	50.00	

Method: 8270C

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA7-SS-0.0-0.5	DUP04-SA7-QC-092111			
BENZOIC ACID	13000 U	7300	200	50.00	J(all detects) UJ(all non-detects)

Method: 9012B

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA7-SS-0.0-0.5	DUP04-SA7-QC-092111			
CYANIDE	0.23	0.51 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA7-SS-0.0-0.5	DUP04-SA7-QC-092111			
PH	5.91	5.91	0	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: DE250_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SS-092111	LEAD	J	0.00021	0.0010	PQL	mg/L	J (all detects)

Method: 8270C SIM
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SS-092111	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.16	1.1	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.35	1.1	PQL	ug/L	
	Di-n-butylphthalate	J	0.83	1.1	PQL	ug/L	

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA7-QC-092111	BORON	J	3.78	4.97	PQL	mg/Kg	J (all detects)
	SODIUM	J	80.4	99.5	PQL	mg/Kg	
	TIN	J	6.59	9.95	PQL	mg/Kg	
	Zirconium	J	3.13	4.97	PQL	mg/Kg	
SL-001-SA7-SS-0.0-0.5	SODIUM	J	79.8	98.0	PQL	mg/Kg	J (all detects)
	TIN	J	3.11	9.80	PQL	mg/Kg	
	Zirconium	J	2.83	4.90	PQL	mg/Kg	
SL-056-SA7-SB-4.0-5.0	TIN	J	3.12	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.54	5.47	PQL	mg/Kg	
SL-057-SA7-SB-3.0-4.0	TIN	J	3.09	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.46	5.24	PQL	mg/Kg	
SL-061-SA7-SS-0.0-0.5	BORON	J	0.737	5.10	PQL	mg/Kg	J (all detects)
	SODIUM	J	91.0	102	PQL	mg/Kg	
	TIN	J	3.09	10.2	PQL	mg/Kg	
	Zirconium	J	2.63	5.10	PQL	mg/Kg	
SL-078-SA7-SB-4.0-5.0	TIN	J	3.29	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.02	5.46	PQL	mg/Kg	
SL-078-SA7-SB-7.0-8.0	TIN	J	3.42	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.69	5.35	PQL	mg/Kg	
SL-119-SA7-SS-0.0-0.5	SODIUM	J	82.9	97.4	PQL	mg/Kg	J (all detects)
	TIN	J	3.04	9.74	PQL	mg/Kg	
	Zirconium	J	2.96	4.87	PQL	mg/Kg	
SL-120-SA7-SS-0.0-0.5	BORON	J	4.77	5.13	PQL	mg/Kg	J (all detects)
	SODIUM	J	84.3	103	PQL	mg/Kg	
	TIN	J	3.30	10.3	PQL	mg/Kg	
	Zirconium	J	3.08	5.13	PQL	mg/Kg	
SL-121-SA7-SS-0.0-0.5	SODIUM	J	76.0	100	PQL	mg/Kg	J (all detects)
	TIN	J	2.94	10.0	PQL	mg/Kg	
	Zirconium	J	2.97	5.02	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: DE250_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-123-SA7-SS-0.0-0.5	BORON	J	0.695	4.97	PQL	mg/Kg	J (all detects)
	SODIUM	J	85.5	99.4	PQL	mg/Kg	
	TIN	J	2.93	9.94	PQL	mg/Kg	
	Zirconium	J	3.54	4.97	PQL	mg/Kg	
SL-124-SA7-SS-0.0-0.5	SODIUM	J	91.7	102	PQL	mg/Kg	J (all detects)
	TIN	J	3.23	10.2	PQL	mg/Kg	
	Zirconium	J	2.64	5.10	PQL	mg/Kg	
SL-156-SA7-SB-4.0-5.0	BORON	J	0.877	5.18	PQL	mg/Kg	J (all detects)
	TIN	J	3.23	10.4	PQL	mg/Kg	
	Zirconium	J	2.94	5.18	PQL	mg/Kg	
SL-156-SA7-SB-7.5-8.5	TIN	J	2.96	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.94	5.33	PQL	mg/Kg	
SL-158-SA7-SB-4.0-5.0	BORON	J	1.57	5.03	PQL	mg/Kg	J (all detects)
	TIN	J	2.97	10.1	PQL	mg/Kg	
	Zirconium	J	2.74	5.03	PQL	mg/Kg	
SL-175-SA7-SS-0.0-0.5	SODIUM	J	90.4	100	PQL	mg/Kg	J (all detects)
	TIN	J	3.10	10.0	PQL	mg/Kg	
	Zirconium	J	3.44	5.02	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA7-QC-092111	SELENIUM	J	0.161	0.406	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0652	0.101	PQL	mg/Kg	
SL-001-SA7-SS-0.0-0.5	SELENIUM	J	0.215	0.400	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0609	0.0999	PQL	mg/Kg	
SL-056-SA7-SB-4.0-5.0	ANTIMONY	J	0.0994	0.217	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0809	0.108	PQL	mg/Kg	
	SELENIUM	J	0.107	0.433	PQL	mg/Kg	
	SILVER	J	0.0187	0.108	PQL	mg/Kg	
SL-057-SA7-SB-3.0-4.0	ANTIMONY	J	0.0955	0.209	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0781	0.105	PQL	mg/Kg	
	SELENIUM	J	0.175	0.419	PQL	mg/Kg	
	SILVER	J	0.0183	0.105	PQL	mg/Kg	
SL-061-SA7-SS-0.0-0.5	SELENIUM	J	0.178	0.408	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0671	0.102	PQL	mg/Kg	
SL-078-SA7-SB-4.0-5.0	ANTIMONY	J	0.108	0.214	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.159	0.429	PQL	mg/Kg	
	SILVER	J	0.0523	0.107	PQL	mg/Kg	
SL-078-SA7-SB-7.0-8.0	SELENIUM	J	0.110	0.432	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0176	0.108	PQL	mg/Kg	
SL-119-SA7-SS-0.0-0.5	SELENIUM	J	0.160	0.393	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0461	0.0984	PQL	mg/Kg	
SL-120-SA7-SS-0.0-0.5	SELENIUM	J	0.194	0.410	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0531	0.103	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: DE250_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-121-SA7-SS-0.0-0.5	SELENIUM SILVER	J	0.125	0.405	PQL	mg/Kg	J (all detects)
		J	0.0571	0.101	PQL	mg/Kg	
SL-123-SA7-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.198	0.201	PQL	mg/Kg	J (all detects)
		J	0.140	0.401	PQL	mg/Kg	
		J	0.0489	0.100	PQL	mg/Kg	
SL-124-SA7-SS-0.0-0.5	SELENIUM SILVER	J	0.259	0.404	PQL	mg/Kg	J (all detects)
		J	0.0571	0.101	PQL	mg/Kg	
SL-156-SA7-SB-4.0-5.0	CADMIUM SELENIUM SILVER	J	0.0818	0.106	PQL	mg/Kg	J (all detects)
		J	0.150	0.422	PQL	mg/Kg	
		J	0.0219	0.106	PQL	mg/Kg	
SL-156-SA7-SB-7.5-8.5	CADMIUM SELENIUM	J	0.0582	0.106	PQL	mg/Kg	J (all detects)
		J	0.0762	0.422	PQL	mg/Kg	
SL-158-SA7-SB-4.0-5.0	CADMIUM SELENIUM SILVER	J	0.0829	0.101	PQL	mg/Kg	J (all detects)
		J	0.149	0.402	PQL	mg/Kg	
		J	0.0235	0.101	PQL	mg/Kg	
SL-175-SA7-SS-0.0-0.5	SELENIUM SILVER	J	0.111	0.401	PQL	mg/Kg	J (all detects)
		J	0.0381	0.100	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA7-QC-092111	HEXAVALENT CHROMIUM	J	0.37	1.0	PQL	mg/Kg	J (all detects)
SL-001-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.48	1.0	PQL	mg/Kg	J (all detects)
SL-056-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.38	1.1	PQL	mg/Kg	J (all detects)
SL-057-SA7-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.34	1.1	PQL	mg/Kg	J (all detects)
SL-078-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.60	1.1	PQL	mg/Kg	J (all detects)
SL-078-SA7-SB-7.0-8.0	HEXAVALENT CHROMIUM	J	0.57	1.1	PQL	mg/Kg	J (all detects)
SL-123-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.56	1.0	PQL	mg/Kg	J (all detects)
SL-175-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.46	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA7-QC-092111	MERCURY	J	0.0233	0.101	PQL	mg/Kg	J (all detects)
SL-057-SA7-SB-3.0-4.0	MERCURY	J	0.0099	0.106	PQL	mg/Kg	J (all detects)
SL-061-SA7-SS-0.0-0.5	MERCURY	J	0.0320	0.102	PQL	mg/Kg	J (all detects)
SL-078-SA7-SB-4.0-5.0	MERCURY	J	0.0169	0.104	PQL	mg/Kg	J (all detects)
SL-078-SA7-SB-7.0-8.0	MERCURY	J	0.0078	0.104	PQL	mg/Kg	J (all detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: DE250_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-119-SA7-SS-0.0-0.5	MERCURY	J	0.0215	0.0984	PQL	mg/Kg	J (all detects)
SL-120-SA7-SS-0.0-0.5	MERCURY	J	0.0266	0.0967	PQL	mg/Kg	J (all detects)
SL-121-SA7-SS-0.0-0.5	MERCURY	J	0.0193	0.0976	PQL	mg/Kg	J (all detects)
SL-123-SA7-SS-0.0-0.5	MERCURY	J	0.0280	0.0955	PQL	mg/Kg	J (all detects)
SL-124-SA7-SS-0.0-0.5	MERCURY	J	0.0286	0.0999	PQL	mg/Kg	J (all detects)
SL-156-SA7-SB-4.0-5.0	MERCURY	J	0.0078	0.106	PQL	mg/Kg	J (all detects)
SL-158-SA7-SB-4.0-5.0	MERCURY	J	0.0094	0.0989	PQL	mg/Kg	J (all detects)
SL-175-SA7-SS-0.0-0.5	MERCURY	J	0.0159	0.0942	PQL	mg/Kg	J (all detects)

Method: 8015B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-175-SA7-SS-0.0-0.5	Isopropanol	J	220	510	PQL	ug/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-123-SA7-SS-0.0-0.5	EFH (C15-C20)	J	2.1	2.5	PQL	mg/Kg	J (all detects)
SL-175-SA7-SS-0.0-0.5	EFH (C15-C20)	J	0.96	2.4	PQL	mg/Kg	J (all detects)

Method: 8081A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA7-QC-092111	4,4'-DDE	J	1.3	1.7	PQL	ug/Kg	J (all detects)
	HEPTACHLOR EPOXIDE	J	0.30	0.85	PQL	ug/Kg	
SL-001-SA7-SS-0.0-0.5	Chlordane	J	2.4	3.5	PQL	ug/Kg	J (all detects)
SL-061-SA7-SS-0.0-0.5	ALPHA-BHC	J	0.040	0.17	PQL	ug/Kg	J (all detects)
	BETA-BHC	J	0.078	0.17	PQL	ug/Kg	
SL-120-SA7-SS-0.0-0.5	Chlordane	J	11	17	PQL	ug/Kg	J (all detects)
SL-121-SA7-SS-0.0-0.5	Chlordane	J	6.7	17	PQL	ug/Kg	J (all detects)
SL-123-SA7-SS-0.0-0.5	ALPHA-BHC	J	0.047	0.17	PQL	ug/Kg	J (all detects)
	Chlordane	J	1.4	3.5	PQL	ug/Kg	
	gamma-BHC (Lindane)	J	0.088	0.17	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: DE250_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8081A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-175-SA7-SS-0.0-0.5	Chlordane gamma-BHC (Lindane)	J	3.1	3.4	PQL	ug/Kg	J (all detects)
		J	0.052	0.17	PQL	ug/Kg	

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA7-SS-0.0-0.5	AROCLOR 1260 Aroclor 5460	J	1.6	1.7	PQL	ug/Kg	J (all detects)
		J	2.0	3.4	PQL	ug/Kg	
SL-119-SA7-SS-0.0-0.5	Aroclor 5460	J	1.9	3.3	PQL	ug/Kg	J (all detects)
SL-120-SA7-SS-0.0-0.5	AROCLOR 1260	J	1.3	1.7	PQL	ug/Kg	J (all detects)
SL-120-SA7-SS-0.0-0.5RLLCS	AROCLOR 1260	J	1.6	1.7	PQL	ug/Kg	J (all detects)
SL-123-SA7-SS-0.0-0.5	AROCLOR 1260	J	1.4	1.7	PQL	ug/Kg	J (all detects)
SL-158-SA7-SB-4.0-5.0	AROCLOR 1260	J	0.52	1.8	PQL	ug/Kg	J (all detects)

Method: 8151A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA7-QC-092111	2,4,5-T	J	0.14	0.17	PQL	ug/Kg	J (all detects)
SL-061-SA7-SS-0.0-0.5	DICAMBA	J	0.74	1.2	PQL	ug/Kg	J (all detects)
SL-119-SA7-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.11	0.17	PQL	ug/Kg	J (all detects)
SL-120-SA7-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.087	0.17	PQL	ug/Kg	J (all detects)
SL-121-SA7-SS-0.0-0.5	2,4,5-T	J	0.13	0.17	PQL	ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA7-QC-092111	BENZOIC ACID PHENANTHRENE	J	7300	13000	PQL	ug/Kg	J (all detects)
		J	470	4300	PQL	ug/Kg	
SL-001-SA7-SS-0.0-0.5	PHENOL	J	19	170	PQL	ug/Kg	J (all detects)
SL-119-SA7-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	190	840	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	85	1700	PQL	ug/Kg	
	CHRYSENE	J	100	840	PQL	ug/Kg	
	FLUORANTHENE	J	140	840	PQL	ug/Kg	
SL-121-SA7-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	1400	8300	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: DE250_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-124-SA7-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	32	340	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	24	170	PQL	ug/Kg	
	FLUORANTHENE	J	18	170	PQL	ug/Kg	
	PHENOL	J	19	170	PQL	ug/Kg	
SL-158-SA7-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	28	350	PQL	ug/Kg	J (all detects)
SL-175-SA7-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	72	170	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	24	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	23	170	PQL	ug/Kg	

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA7-QC-092111	BENZO(A)ANTHRACENE	J	20	34	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	29	34	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	19	34	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	160	360	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	17	34	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	17	34	PQL	ug/Kg	
SL-001-SA7-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.95	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.4	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.99	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	18	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	1.7	PQL	ug/Kg	
SL-057-SA7-SB-3.0-4.0	BENZO(B)FLUORANTHENE	J	0.91	1.8	PQL	ug/Kg	J (all detects)
SL-061-SA7-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	13	17	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	100	180	PQL	ug/Kg	
	CHRYSENE	J	6.0	17	PQL	ug/Kg	
	FLUORANTHENE	J	7.5	17	PQL	ug/Kg	
SL-078-SA7-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	20	PQL	ug/Kg	J (all detects)
SL-119-SA7-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	24	33	PQL	ug/Kg	J (all detects)
	PYRENE	J	15	33	PQL	ug/Kg	
SL-120-SA7-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	23	34	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	24	34	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	25	34	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	340	370	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	14	34	PQL	ug/Kg	
SL-121-SA7-SS-0.0-0.5	BENZO(A)PYRENE	J	20	33	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	26	33	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	17	33	PQL	ug/Kg	
	FLUORANTHENE	J	20	33	PQL	ug/Kg	
	PYRENE	J	14	33	PQL	ug/Kg	
SL-123-SA7-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	11	17	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	9.6	17	PQL	ug/Kg	
	PHENANTHRENE	J	16	17	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE250

Laboratory: LL

EDD Filename: DE250_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-124-SA7-SS-0.0-0.5	ANTHRACENE	J	0.64	1.7	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	9.9	19	PQL	ug/Kg	
	NAPHTHALENE	J	1.2	1.7	PQL	ug/Kg	
SL-156-SA7-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.7	19	PQL	ug/Kg	J (all detects)
SL-175-SA7-SS-0.0-0.5	ANTHRACENE	J	9.5	17	PQL	ug/Kg	J (all detects)

Method: 9012B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-061-SA7-SS-0.0-0.5	CYANIDE	J	0.32	0.51	PQL	mg/Kg	J (all detects)
SL-120-SA7-SS-0.0-0.5	CYANIDE	J	0.23	0.49	PQL	mg/Kg	J (all detects)

LDC #: 26859T4

VALIDATION COMPLETENESS WORKSHEET

Date: 12/30/17

SDG #: DE250

ADR

Page: 1 of 1

Laboratory: Lancaster Laboratories

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	No find by ZUB / CUB
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N SW	Al, Ba, Fe, Pb, Mg, Mn, P, Ti, Zn 74X
VII.	Duplicate Sample Analysis	SW	Pb J/u J
VIII.	Laboratory Control Samples (LCS)	N	
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Cr, Co, Ni, V J/u J
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV.	Field Blanks	SW	EB=17, Pb ~0.1 ug/L. (No samples were qualified)

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

qualified

Validated Samples:

1	SL-001-SA7-SS-0.0-0.5	11	SL-057-SA7-SB-3.0-4.0	21		31	
2	SL-061-SA7-SS-0.0-0.5	12	SL-078-SA7-SB-4.0-5.0	22		32	
3	SL-119-SA7-SS-0.0-0.5	13	SL-078-SA7-SB-7.0-8.0	23		33	
4	SL-120-SA7-SS-0.0-0.5	14	SL-156-SA7-SB-4.0-5.0	24		34	
5	SL-121-SA7-SS-0.0-0.5	15	SL-156-SA7-SB-7.5-8.5	25		35	
6	SL-123-SA7-SS-0.0-0.5	16	SL-158-SA7-SB-4.0-5.0	26		36	
7	SL-124-SA7-SS-0.0-0.5	17	EB-SA7-SS-092111	27		37	
8	SL-175-SA7-SS-0.0-0.5	18	SL-120-SA7-SS-0.0-0.5MS	28		38	
9	DUP04-SA7-QC-092111	19	SL-120-SA7-SS-0.0-0.5MSD	29		39	
10	SL-056-SA7-SB-4.0-5.0	20	SL-120-SA7-SS-0.0-0.5DUP	30		40	

Notes: _____



QUALITY ASSURANCE SUMMARY

FORM 5A(MS/MSD)
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE
 SDG No.: DE250
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6415779BKG Matrix Spike Lab Sample ID: 6415780MS Matrix Spike Duplicate Lab Sample ID: 6415781MSD
 & Solids for Sample: 97.5
 Batch Id(s): P26608B, P26626A, P27808A, P26611E

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MS Spike Added	MSD Spike Added	Units	MS		MSD		Control Limit	
		Result	C	Result	C	Result	C				Q	%R	Q	%R	Q	%R
Aluminum	121	15305.8379		18402.0995		18720.1615		205.1282	203.0972	MG/KG	1509	1681	2	74X	20P	
Antimony	75	0.2605		0.7940		0.9156		1.2066	1.2186	MG/KG	44 N	54 N	14	75 - 125	20MS	
Arsenic	137	4.0492		6.7471		8.1137		2.0111	2.0310	MG/KG	134 N	200 N	18	75 - 125	20MS	
Barium	137	100.6974		115.3746		133.2115		10.0553	10.1549	MG/KG	146	320	14	74X	20MS	
Beryllium	9	0.5497		1.3760		1.6784		0.8044	0.8124	MG/KG	103	139 N	20	75 - 125	20MS	
Boron		4.7744	B	209.1897		209.4694		205.1282	203.0972	MG/KG	100	101	0	84 - 115	20P	
Calcium	111	0.4665		1.6191		1.9386		1.0055	1.0155	MG/KG	115	145 N	18	75 - 125	20MS	
Chromium	52	4557.2010		4885.5446		5035.6507		410.2564	406.1945	MG/KG	80	118	3	75 - 125	20P	
Chromium	52	20.3877		39.0146		39.2384		10.0553	10.1549	MG/KG	185 N	186 N	1	75 - 125	20MS	
Cobalt	59	6.0164		65.1785		77.4613		50.2765	50.7743	MG/KG	118	141 N	17	75 - 125	20MS	
Copper	63	13.1528		24.7763		29.7131		10.0553	10.1549	MG/KG	116	163 N	18	75 - 125	20MS	
Iron		19303.6051		18375.1571		19741.4917		101.5486	101.5486	MG/KG	-914	431	7	74X	20P	
Lead	208	24.9436		29.7436		34.8515		3.0166	3.0465	MG/KG	159	325	16	75 - 125	20MS	
Lithium		19.3887		121.9579		122.5113		102.5641	101.5486	MG/KG	100	102	0	82 - 114	20P	
Magnesium		4018.9456		4337.2738		4451.6141		205.1282	203.0972	MG/KG	155	213	3	74X	20P	
Manganese		289.3251		316.3528		336.8093		51.2821	50.7743	MG/KG	53	94	6	75 - 125	20P	
Mercury		0.0266	B	0.2016		0.2054		0.1694	0.1698	MG/KG	103	105	2	65 - 135	20CV	
Molybdenum	98	0.8096		12.5792		15.1754		10.0553	10.1549	MG/KG	117	141 N	19	75 - 125	20MS	
Nickel	60	16.4021		29.2810		34.9327		10.0553	10.1549	MG/KG	128 N	182 N	18	75 - 125	20MS	
Phosphorus		445.1487		520.2882		536.1544		102.5641	101.5486	MG/KG	73	90	3	74X	20P	
Potassium		3915.5867		5268.6492		5319.7847		1025.6410	1015.4862	MG/KG	132 N	138 N	1	75 - 125	20P	
Selenium	78	0.1942	B	2.4957		2.9165		2.0111	2.0310	MG/KG	114	134 N	16	75 - 125	20MS	
Silver	107	0.0531	B	11.8813		14.2107		10.0553	10.1549	MG/KG	118	139 N	18	75 - 125	20MS	
Sodium		84.3241	B	1118.5015		1116.5220		1025.6410	1015.4862	MG/KG	101	102	0	75 - 125	20P	
Strontium		23.2072		123.6595		125.0805		102.5641	101.5486	MG/KG	98	100	1	75 - 115	20P	
Thallium	203	0.2823		0.7109		0.8762		0.4022	0.4062	MG/KG	107	146 N	21*	75 - 125	20MS	
Tin		3.2954	B	381.5374		379.5725		410.2564	406.1945	MG/KG	92	93	1	80 - 110	20P	
Titanium		1090.6246		1382.7426		1342.2645		102.5641	101.5486	MG/KG	285	248	3	74X	20P	
Vanadium	51	36.8615		46.0332		54.9581		10.0553	10.1549	MG/KG	91	178 N	18	75 - 125	20MS	
Zinc	66	172.1538		195.0729		178.4209		10.0553	10.1549	MG/KG	228	62	9	74X	20MS	
Zirconium		3.0790	B	99.7056		95.4049		102.5641	101.5486	MG/KG	94	91	4	75 - 125	20P	

METHODS: P = ICP Atomic Emission Spectrometer CV = Cold Vapor AF = Cold Vapor Atomic Fluorescence
 MS = ICP Mass Spectrometry
 CONCENTRATION QUALIFIERS: U = Below MDL, B = Below LOQ
 FLAGS: N = Matrix Spike OOS, * = Duplicate OOS

SAMPLE DELIVERY GROUP

DE251

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Sep-2011	SL-142-SA7-SS-0.0-0.5	6417436	N	3550B	8270C SIM	III
21-Sep-2011	SL-142-SA7-SS-0.0-0.5	6417436	N	METHOD	300.0	III
21-Sep-2011	SL-142-SA7-SS-0.0-0.5	6417436	N	METHOD	314.0	III
21-Sep-2011	SL-142-SA7-SS-0.0-0.5	6417436	N	METHOD	6850	III
21-Sep-2011	SL-142-SA7-SS-0.0-0.5	6417436	N	METHOD	7471A	III
21-Sep-2011	SL-142-SA7-SS-0.0-0.5	6417436	N	METHOD	8015B	III
21-Sep-2011	SL-142-SA7-SS-0.0-0.5	6417436	N	METHOD	8015M	III
21-Sep-2011	SL-142-SA7-SS-0.0-0.5	6417436	N	METHOD	9012B	III
21-Sep-2011	SL-142-SA7-SS-0.0-0.5DUP	P417436D270647B	DUP	METHOD	300.0	III
21-Sep-2011	SL-142-SA7-SS-0.0-0.5DUP	P417436D272102B	DUP	METHOD	314.0	III
21-Sep-2011	SL-142-SA7-SS-0.0-0.5MS	P417436R270702B	MS	METHOD	300.0	III
21-Sep-2011	SL-142-SA7-SS-0.0-0.5MS	P417436R272148B	MS	METHOD	314.0	III
21-Sep-2011	SL-023-SA7-SS-0.0-0.5	6417434	N	3050B	6010B	III
21-Sep-2011	SL-023-SA7-SS-0.0-0.5	6417434	N	3050B	6020	III
21-Sep-2011	SL-023-SA7-SS-0.0-0.5	6417434	N	3060A	7199	III
21-Sep-2011	SL-023-SA7-SS-0.0-0.5	6417434	N	3550B	8015B	III
21-Sep-2011	SL-023-SA7-SS-0.0-0.5	6417434	N	3550B	8015M	III
21-Sep-2011	SL-023-SA7-SS-0.0-0.5	6417434	N	3550B	8081A	III
21-Sep-2011	SL-023-SA7-SS-0.0-0.5	6417434	N	3550B	8082	III
21-Sep-2011	SL-023-SA7-SS-0.0-0.5	6417434	N	3550B	8151A	III
21-Sep-2011	SL-023-SA7-SS-0.0-0.5	6417434	N	3550B	8270C	III
21-Sep-2011	SL-023-SA7-SS-0.0-0.5	6417434	N	3550B	8270C SIM	III
21-Sep-2011	SL-023-SA7-SS-0.0-0.5	6417434	N	METHOD	300.0	III
21-Sep-2011	SL-023-SA7-SS-0.0-0.5	6417434	N	METHOD	314.0	III
21-Sep-2011	SL-023-SA7-SS-0.0-0.5	6417434	N	METHOD	6850	III
21-Sep-2011	SL-023-SA7-SS-0.0-0.5	6417434	N	METHOD	7471A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Sep-2011	SL-023-SA7-SS-0.0-0.5	6417434	N	METHOD	8015B	III
21-Sep-2011	SL-023-SA7-SS-0.0-0.5	6417434	N	METHOD	8015M	III
21-Sep-2011	SL-023-SA7-SS-0.0-0.5	6417434	N	METHOD	9012B	III
21-Sep-2011	SL-141-SA7-SS-0.0-0.5	6417435	N	3050B	6010B	III
21-Sep-2011	SL-141-SA7-SS-0.0-0.5	6417435	N	3050B	6020	III
21-Sep-2011	SL-141-SA7-SS-0.0-0.5	6417435	N	3060A	7199	III
21-Sep-2011	SL-141-SA7-SS-0.0-0.5	6417435	N	3550B	8015B	III
21-Sep-2011	SL-141-SA7-SS-0.0-0.5	6417435	N	3550B	8015M	III
21-Sep-2011	SL-141-SA7-SS-0.0-0.5	6417435	N	3550B	8081A	III
21-Sep-2011	SL-141-SA7-SS-0.0-0.5	6417435	N	3550B	8082	III
21-Sep-2011	SL-141-SA7-SS-0.0-0.5	6417435	N	3550B	8151A	III
21-Sep-2011	SL-141-SA7-SS-0.0-0.5	6417435	N	3550B	8270C	III
21-Sep-2011	SL-141-SA7-SS-0.0-0.5	6417435	N	3550B	8270C SIM	III
21-Sep-2011	SL-141-SA7-SS-0.0-0.5	6417435	N	METHOD	300.0	III
21-Sep-2011	SL-141-SA7-SS-0.0-0.5	6417435	N	METHOD	314.0	III
21-Sep-2011	SL-141-SA7-SS-0.0-0.5	6417435	N	METHOD	6850	III
21-Sep-2011	SL-141-SA7-SS-0.0-0.5	6417435	N	METHOD	7471A	III
21-Sep-2011	SL-141-SA7-SS-0.0-0.5	6417435	N	METHOD	8015B	III
21-Sep-2011	SL-141-SA7-SS-0.0-0.5	6417435	N	METHOD	8015M	III
21-Sep-2011	SL-141-SA7-SS-0.0-0.5	6417435	N	METHOD	9012B	III
22-Sep-2011	SL-151-SA7-SS-0.0-0.5	6417433	N	3050B	6010B	III
22-Sep-2011	SL-151-SA7-SS-0.0-0.5	6417433	N	3050B	6020	III
22-Sep-2011	SL-151-SA7-SS-0.0-0.5	6417433	N	3060A	7199	III
22-Sep-2011	SL-151-SA7-SS-0.0-0.5	6417433	N	3550B	8015B	III
22-Sep-2011	SL-151-SA7-SS-0.0-0.5	6417433	N	3550B	8015M	III
22-Sep-2011	SL-151-SA7-SS-0.0-0.5	6417433	N	3550B	8081A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Sep-2011	SL-151-SA7-SS-0.0-0.5	6417433	N	3550B	8082	III
22-Sep-2011	SL-151-SA7-SS-0.0-0.5	6417433	N	3550B	8151A	III
22-Sep-2011	SL-151-SA7-SS-0.0-0.5	6417433	N	3550B	8270C	III
22-Sep-2011	SL-151-SA7-SS-0.0-0.5	6417433	N	3550B	8270C SIM	III
22-Sep-2011	SL-151-SA7-SS-0.0-0.5	6417433	N	METHOD	300.0	III
22-Sep-2011	SL-151-SA7-SS-0.0-0.5	6417433	N	METHOD	314.0	III
22-Sep-2011	SL-151-SA7-SS-0.0-0.5	6417433	N	METHOD	6850	III
22-Sep-2011	SL-151-SA7-SS-0.0-0.5	6417433	N	METHOD	7471A	III
22-Sep-2011	SL-151-SA7-SS-0.0-0.5	6417433	N	METHOD	8015B	III
22-Sep-2011	SL-151-SA7-SS-0.0-0.5	6417433	N	METHOD	8015M	III
22-Sep-2011	SL-151-SA7-SS-0.0-0.5	6417433	N	METHOD	9012B	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5	6417430	N	3050B	6010B	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5	6417430	N	3050B	6020	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5	6417430	N	3060A	7199	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5	6417430	N	3546	1625C	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5	6417430	N	3550B	8015B	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5	6417430	N	3550B	8015M	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5	6417430	N	3550B	8081A	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5	6417430	N	3550B	8082	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5	6417430	N	3550B	8151A	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5	6417430	N	3550B	8270C	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5	6417430	N	3550B	8270C SIM	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5	6417430	N	8330	8330A	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5	6417430	N	METHOD	300.0	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5	6417430	N	METHOD	314.0	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5	6417430	N	METHOD	6850	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Sep-2011	SL-055-SA7-SS-0.0-0.5	6417430	N	METHOD	7471A	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5	6417430	N	METHOD	8015B	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5	6417430	N	METHOD	8015M	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5	6417430	N	METHOD	8315A	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5	6417430	N	METHOD	9012B	III
22-Sep-2011	TB-092211	6417445	TB	5030B	8015M	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5DUP	P417430D221923	DUP	METHOD	7471A	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5MSD	P417430M221926	MSD	METHOD	7471A	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5MSD	P417430M322131A	MSD	METHOD	8015M	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5MS	P417430R221925	MS	METHOD	7471A	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5MS	P417430R322118A	MS	METHOD	8015M	III
22-Sep-2011	SL-075-SA7-SB-4.0-5.0	6417442	N	3050B	6010B	III
22-Sep-2011	SL-075-SA7-SB-4.0-5.0	6417442	N	3050B	6020	III
22-Sep-2011	SL-075-SA7-SB-4.0-5.0	6417442	N	3060A	7199	III
22-Sep-2011	SL-075-SA7-SB-4.0-5.0	6417442	N	3550B	8015B	III
22-Sep-2011	SL-075-SA7-SB-4.0-5.0	6417442	N	3550B	8015M	III
22-Sep-2011	SL-075-SA7-SB-4.0-5.0	6417442	N	3550B	8082	III
22-Sep-2011	SL-075-SA7-SB-4.0-5.0	6417442	N	3550B	8270C	III
22-Sep-2011	SL-075-SA7-SB-4.0-5.0	6417442	N	3550B	8270C SIM	III
22-Sep-2011	SL-075-SA7-SB-4.0-5.0	6417442	N	5035	8015M	III
22-Sep-2011	SL-075-SA7-SB-4.0-5.0	6417442	N	METHOD	300.0	III
22-Sep-2011	SL-075-SA7-SB-4.0-5.0	6417442	N	METHOD	314.0	III
22-Sep-2011	SL-075-SA7-SB-4.0-5.0	6417442	N	METHOD	7471A	III
22-Sep-2011	SL-075-SA7-SB-4.0-5.0	6417442	N	METHOD	8015B	III
22-Sep-2011	SL-075-SA7-SB-4.0-5.0	6417442	N	METHOD	8015M	III
22-Sep-2011	SL-075-SA7-SB-9.0-10.0	6417443	N	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Sep-2011	SL-075-SA7-SB-9.0-10.0	6417443	N	3050B	6020	III
22-Sep-2011	SL-075-SA7-SB-9.0-10.0	6417443	N	3060A	7199	III
22-Sep-2011	SL-075-SA7-SB-9.0-10.0	6417443	N	3550B	8015B	III
22-Sep-2011	SL-075-SA7-SB-9.0-10.0	6417443	N	3550B	8015M	III
22-Sep-2011	SL-075-SA7-SB-9.0-10.0	6417443	N	3550B	8082	III
22-Sep-2011	SL-075-SA7-SB-9.0-10.0	6417443	N	3550B	8270C	III
22-Sep-2011	SL-075-SA7-SB-9.0-10.0	6417443	N	3550B	8270C SIM	III
22-Sep-2011	SL-075-SA7-SB-9.0-10.0	6417443	N	5035	8015M	III
22-Sep-2011	SL-075-SA7-SB-9.0-10.0	6417443	N	METHOD	300.0	III
22-Sep-2011	SL-075-SA7-SB-9.0-10.0	6417443	N	METHOD	314.0	III
22-Sep-2011	SL-075-SA7-SB-9.0-10.0	6417443	N	METHOD	7471A	III
22-Sep-2011	SL-075-SA7-SB-9.0-10.0	6417443	N	METHOD	8015B	III
22-Sep-2011	SL-075-SA7-SB-9.0-10.0	6417443	N	METHOD	8015M	III
22-Sep-2011	SL-088-SA7-SS-0.0-0.5	6417431	N	3050B	6010B	III
22-Sep-2011	SL-088-SA7-SS-0.0-0.5	6417431	N	3050B	6020	III
22-Sep-2011	SL-088-SA7-SS-0.0-0.5	6417431	N	3060A	7199	III
22-Sep-2011	SL-088-SA7-SS-0.0-0.5	6417431	N	3550B	8015B	III
22-Sep-2011	SL-088-SA7-SS-0.0-0.5	6417431	N	3550B	8015M	III
22-Sep-2011	SL-088-SA7-SS-0.0-0.5	6417431	N	3550B	8081A	III
22-Sep-2011	SL-088-SA7-SS-0.0-0.5	6417431	N	3550B	8082	III
22-Sep-2011	SL-088-SA7-SS-0.0-0.5	6417431	N	3550B	8151A	III
22-Sep-2011	SL-088-SA7-SS-0.0-0.5	6417431	N	3550B	8270C	III
22-Sep-2011	SL-088-SA7-SS-0.0-0.5	6417431	N	3550B	8270C SIM	III
22-Sep-2011	SL-088-SA7-SS-0.0-0.5	6417431	N	METHOD	300.0	III
22-Sep-2011	SL-088-SA7-SS-0.0-0.5	6417431	N	METHOD	314.0	III
22-Sep-2011	SL-088-SA7-SS-0.0-0.5	6417431	N	METHOD	6850	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Sep-2011	SL-088-SA7-SS-0.0-0.5	6417431	N	METHOD	7471A	III
22-Sep-2011	SL-088-SA7-SS-0.0-0.5	6417431	N	METHOD	8015B	III
22-Sep-2011	SL-088-SA7-SS-0.0-0.5	6417431	N	METHOD	8015M	III
22-Sep-2011	SL-088-SA7-SS-0.0-0.5	6417431	N	METHOD	9012B	III
22-Sep-2011	SL-101-SA7-SS-0.0-0.5	6417432	N	3050B	6010B	III
22-Sep-2011	SL-101-SA7-SS-0.0-0.5	6417432	N	3050B	6020	III
22-Sep-2011	SL-101-SA7-SS-0.0-0.5	6417432	N	3060A	7199	III
22-Sep-2011	SL-101-SA7-SS-0.0-0.5	6417432	N	3550B	8081A	III
22-Sep-2011	SL-101-SA7-SS-0.0-0.5	6417432	N	3550B	8082	III
22-Sep-2011	SL-101-SA7-SS-0.0-0.5	6417432	N	3550B	8151A	III
22-Sep-2011	SL-101-SA7-SS-0.0-0.5	6417432	N	3550B	8270C	III
22-Sep-2011	SL-101-SA7-SS-0.0-0.5	6417432	N	3550B	8270C SIM	III
22-Sep-2011	SL-101-SA7-SS-0.0-0.5	6417432	N	METHOD	300.0	III
22-Sep-2011	SL-101-SA7-SS-0.0-0.5	6417432	N	METHOD	314.0	III
22-Sep-2011	SL-101-SA7-SS-0.0-0.5	6417432	N	METHOD	7471A	III
22-Sep-2011	SL-077-SA7-SB-4.0-5.0	6417444	N	3050B	6010B	III
22-Sep-2011	SL-077-SA7-SB-4.0-5.0	6417444	N	3050B	6020	III
22-Sep-2011	SL-077-SA7-SB-4.0-5.0	6417444	N	3060A	7199	III
22-Sep-2011	SL-077-SA7-SB-4.0-5.0	6417444	N	3550B	8015B	III
22-Sep-2011	SL-077-SA7-SB-4.0-5.0	6417444	N	3550B	8015M	III
22-Sep-2011	SL-077-SA7-SB-4.0-5.0	6417444	N	3550B	8082	III
22-Sep-2011	SL-077-SA7-SB-4.0-5.0	6417444	N	3550B	8270C	III
22-Sep-2011	SL-077-SA7-SB-4.0-5.0	6417444	N	3550B	8270C SIM	III
22-Sep-2011	SL-077-SA7-SB-4.0-5.0	6417444	N	5035	8015M	III
22-Sep-2011	SL-077-SA7-SB-4.0-5.0	6417444	N	METHOD	300.0	III
22-Sep-2011	SL-077-SA7-SB-4.0-5.0	6417444	N	METHOD	314.0	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Sep-2011	SL-077-SA7-SB-4.0-5.0	6417444	N	METHOD	7471A	III
22-Sep-2011	SL-077-SA7-SB-4.0-5.0	6417444	N	METHOD	8015B	III
22-Sep-2011	SL-077-SA7-SB-4.0-5.0	6417444	N	METHOD	8015M	III
22-Sep-2011	SL-020-SA7-SS-0.0-0.5	6417429	N	3050B	6010B	III
22-Sep-2011	SL-020-SA7-SS-0.0-0.5	6417429	N	3050B	6020	III
22-Sep-2011	SL-020-SA7-SS-0.0-0.5	6417429	N	3060A	7199	III
22-Sep-2011	SL-020-SA7-SS-0.0-0.5	6417429	N	3550B	8015B	III
22-Sep-2011	SL-020-SA7-SS-0.0-0.5	6417429	N	3550B	8015M	III
22-Sep-2011	SL-020-SA7-SS-0.0-0.5	6417429	N	3550B	8081A	III
22-Sep-2011	SL-020-SA7-SS-0.0-0.5	6417429	N	3550B	8082	III
22-Sep-2011	SL-020-SA7-SS-0.0-0.5	6417429	N	3550B	8151A	III
22-Sep-2011	SL-020-SA7-SS-0.0-0.5	6417429	N	3550B	8270C	III
22-Sep-2011	SL-020-SA7-SS-0.0-0.5	6417429	N	3550B	8270C SIM	III
22-Sep-2011	SL-020-SA7-SS-0.0-0.5	6417429	N	METHOD	300.0	III
22-Sep-2011	SL-020-SA7-SS-0.0-0.5	6417429	N	METHOD	314.0	III
22-Sep-2011	SL-020-SA7-SS-0.0-0.5	6417429	N	METHOD	6850	III
22-Sep-2011	SL-020-SA7-SS-0.0-0.5	6417429	N	METHOD	7471A	III
22-Sep-2011	SL-020-SA7-SS-0.0-0.5	6417429	N	METHOD	8015B	III
22-Sep-2011	SL-020-SA7-SS-0.0-0.5	6417429	N	METHOD	8015M	III
22-Sep-2011	SL-020-SA7-SS-0.0-0.5	6417429	N	METHOD	9012B	III
22-Sep-2011	SL-020-SA7-SS-0.0-0.5MSD	P417429M322303A	MSD	3550B	8015B	III
22-Sep-2011	SL-020-SA7-SS-0.0-0.5MS	P417429R322236A	MS	3550B	8015B	III
22-Sep-2011	SL-072-SA7-SB-4.0-5.0	6417439	N	3050B	6010B	III
22-Sep-2011	SL-072-SA7-SB-4.0-5.0	6417439	N	3050B	6020	III
22-Sep-2011	SL-072-SA7-SB-4.0-5.0	6417439	N	3060A	7199	III
22-Sep-2011	SL-072-SA7-SB-4.0-5.0	6417439	N	3550B	8015B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Sep-2011	SL-072-SA7-SB-4.0-5.0	6417439	N	3550B	8015M	III
22-Sep-2011	SL-072-SA7-SB-4.0-5.0	6417439	N	3550B	8082	III
22-Sep-2011	SL-072-SA7-SB-4.0-5.0	6417439	N	3550B	8270C	III
22-Sep-2011	SL-072-SA7-SB-4.0-5.0	6417439	N	3550B	8270C SIM	III
22-Sep-2011	SL-072-SA7-SB-4.0-5.0	6417439	N	5035	8015M	III
22-Sep-2011	SL-072-SA7-SB-4.0-5.0	6417439	N	METHOD	300.0	III
22-Sep-2011	SL-072-SA7-SB-4.0-5.0	6417439	N	METHOD	314.0	III
22-Sep-2011	SL-072-SA7-SB-4.0-5.0	6417439	N	METHOD	7471A	III
22-Sep-2011	SL-072-SA7-SB-4.0-5.0	6417439	N	METHOD	8015B	III
22-Sep-2011	SL-072-SA7-SB-4.0-5.0	6417439	N	METHOD	8015M	III
22-Sep-2011	SL-072-SA7-SB-7.5-8.5	6417440	N	3050B	6010B	III
22-Sep-2011	SL-072-SA7-SB-7.5-8.5	6417440	N	3050B	6020	III
22-Sep-2011	SL-072-SA7-SB-7.5-8.5	6417440	N	3060A	7199	III
22-Sep-2011	SL-072-SA7-SB-7.5-8.5	6417440	N	3550B	8015B	III
22-Sep-2011	SL-072-SA7-SB-7.5-8.5	6417440	N	3550B	8015M	III
22-Sep-2011	SL-072-SA7-SB-7.5-8.5	6417440	N	3550B	8082	III
22-Sep-2011	SL-072-SA7-SB-7.5-8.5	6417440	N	3550B	8270C	III
22-Sep-2011	SL-072-SA7-SB-7.5-8.5	6417440	N	3550B	8270C SIM	III
22-Sep-2011	SL-072-SA7-SB-7.5-8.5	6417440	N	5035	8015M	III
22-Sep-2011	SL-072-SA7-SB-7.5-8.5	6417440	N	METHOD	300.0	III
22-Sep-2011	SL-072-SA7-SB-7.5-8.5	6417440	N	METHOD	314.0	III
22-Sep-2011	SL-072-SA7-SB-7.5-8.5	6417440	N	METHOD	7471A	III
22-Sep-2011	SL-072-SA7-SB-7.5-8.5	6417440	N	METHOD	8015B	III
22-Sep-2011	SL-072-SA7-SB-7.5-8.5	6417440	N	METHOD	8015M	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5	6417426	N	3050B	6010B	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5	6417426	N	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Sep-2011	SL-011-SA7-SS-0.0-0.5	6417426	N	3060A	7199	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5	6417426	N	3550B	8081A	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5	6417426	N	3550B	8082	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5	6417426	N	3550B	8151A	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5	6417426	N	3550B	8270C	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5	6417426	N	3550B	8270C SIM	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5	6417426	N	METHOD	300.0	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5	6417426	N	METHOD	314.0	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5	6417426	N	METHOD	7471A	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5DUP	P417426D220456A	DUP	3050B	6020	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5DUP	P417426D220723	DUP	3050B	6010B	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5DUP	P417426D220757	DUP	3050B	6010B	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5DUP	P417426D222039B	DUP	3050B	6020	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5DUP	P417426D222039C	DUP	3050B	6020	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5DUP	P417426D222039D	DUP	3050B	6020	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5DUP	P417426D270314A	DUP	METHOD	300.0	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5DUP	P417426D271603A	DUP	METHOD	314.0	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5MSD	P417426M220459A	MSD	3050B	6020	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5MSD	P417426M220732	MSD	3050B	6010B	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5MSD	P417426M220805	MSD	3050B	6010B	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5MSD	P417426M222045B	MSD	3050B	6020	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5MSD	P417426M222045C	MSD	3050B	6020	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5MSD	P417426M222045D	MSD	3050B	6020	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5MSD	P417426M240823A	MSD	3550B	8082	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5MSD	P417426M242221A	MSD	3550B	8081A	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5MSD	P417426M260743	MSD	3550B	8270C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Sep-2011	SL-011-SA7-SS-0.0-0.5MS	P417426R220457A	MS	3050B	6020	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5MS	P417426R220727	MS	3050B	6010B	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5MS	P417426R220801	MS	3050B	6010B	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5MS	P417426R222042B	MS	3050B	6020	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5MS	P417426R222042C	MS	3050B	6020	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5MS	P417426R222042D	MS	3050B	6020	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5MS	P417426R240805A	MS	3550B	8082	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5MS	P417426R242206A	MS	3550B	8081A	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5MS	P417426R260717	MS	3550B	8270C	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5MS	P417426R270329A	MS	METHOD	300.0	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5MS	P417426R271626A	MS	METHOD	314.0	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5	6417427	N	3050B	6010B	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5	6417427	N	3050B	6020	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5	6417427	N	3060A	7199	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5	6417427	N	3550B	8015B	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5	6417427	N	3550B	8015M	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5	6417427	N	3550B	8081A	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5	6417427	N	3550B	8082	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5	6417427	N	3550B	8151A	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5	6417427	N	3550B	8270C	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5	6417427	N	3550B	8270C SIM	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5	6417427	N	METHOD	300.0	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5	6417427	N	METHOD	314.0	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5	6417427	N	METHOD	6850	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5	6417427	N	METHOD	7471A	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5	6417427	N	METHOD	8015B	III

III = EPA Level 3 Data Review
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N = Normal Sample
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MS = Matrix Spike
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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Sep-2011	SL-012-SA7-SS-0.0-0.5	6417427	N	METHOD	8015M	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5	6417427	N	METHOD	9012B	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5DUP	P417427D271417A	DUP	3060A	7199	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5DUP	P417427D271949A	DUP	METHOD	9012B	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5MSD	P417427M241707A	MSD	METHOD	6850	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5MSD	P417427M261014	MSD	3550B	8270C SIM	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5MSD	P417427M321329A	MSD	METHOD	8015B	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5MSD	P417427M321635A	MSD	3550B	8015M	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5MS	P417427R241655A	MS	METHOD	6850	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5MS	P417427R260941	MS	3550B	8270C SIM	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5MS	P417427R271343A	MS	3060A	7199	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5MS	P417427R271951A	MS	METHOD	9012B	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5MS	P417427R321312A	MS	METHOD	8015B	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5MS	P417427R321611A	MS	3550B	8015M	III
22-Sep-2011	SL-039-SA7-SB-4.0-5.0	6417438	N	3050B	6010B	III
22-Sep-2011	SL-039-SA7-SB-4.0-5.0	6417438	N	3050B	6020	III
22-Sep-2011	SL-039-SA7-SB-4.0-5.0	6417438	N	3060A	7199	III
22-Sep-2011	SL-039-SA7-SB-4.0-5.0	6417438	N	3550B	8015B	III
22-Sep-2011	SL-039-SA7-SB-4.0-5.0	6417438	N	3550B	8015M	III
22-Sep-2011	SL-039-SA7-SB-4.0-5.0	6417438	N	3550B	8082	III
22-Sep-2011	SL-039-SA7-SB-4.0-5.0	6417438	N	3550B	8270C	III
22-Sep-2011	SL-039-SA7-SB-4.0-5.0	6417438	N	3550B	8270C SIM	III
22-Sep-2011	SL-039-SA7-SB-4.0-5.0	6417438	N	5035	8015M	III
22-Sep-2011	SL-039-SA7-SB-4.0-5.0	6417438	N	METHOD	300.0	III
22-Sep-2011	SL-039-SA7-SB-4.0-5.0	6417438	N	METHOD	314.0	III
22-Sep-2011	SL-039-SA7-SB-4.0-5.0	6417438	N	METHOD	7471A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Sep-2011	SL-039-SA7-SB-4.0-5.0	6417438	N	METHOD	8015B	III
22-Sep-2011	SL-039-SA7-SB-4.0-5.0	6417438	N	METHOD	8015M	III
22-Sep-2011	SL-013-SA7-SS-0.0-0.5	6417428	N	3050B	6010B	III
22-Sep-2011	SL-013-SA7-SS-0.0-0.5	6417428	N	3050B	6020	III
22-Sep-2011	SL-013-SA7-SS-0.0-0.5	6417428	N	3060A	7199	III
22-Sep-2011	SL-013-SA7-SS-0.0-0.5	6417428	N	3550B	8015B	III
22-Sep-2011	SL-013-SA7-SS-0.0-0.5	6417428	N	3550B	8015M	III
22-Sep-2011	SL-013-SA7-SS-0.0-0.5	6417428	N	3550B	8081A	III
22-Sep-2011	SL-013-SA7-SS-0.0-0.5	6417428	N	3550B	8082	III
22-Sep-2011	SL-013-SA7-SS-0.0-0.5	6417428	N	3550B	8151A	III
22-Sep-2011	SL-013-SA7-SS-0.0-0.5	6417428	N	3550B	8270C	III
22-Sep-2011	SL-013-SA7-SS-0.0-0.5	6417428	N	3550B	8270C SIM	III
22-Sep-2011	SL-013-SA7-SS-0.0-0.5	6417428	N	METHOD	300.0	III
22-Sep-2011	SL-013-SA7-SS-0.0-0.5	6417428	N	METHOD	314.0	III
22-Sep-2011	SL-013-SA7-SS-0.0-0.5	6417428	N	METHOD	6850	III
22-Sep-2011	SL-013-SA7-SS-0.0-0.5	6417428	N	METHOD	7471A	III
22-Sep-2011	SL-013-SA7-SS-0.0-0.5	6417428	N	METHOD	8015B	III
22-Sep-2011	SL-013-SA7-SS-0.0-0.5	6417428	N	METHOD	8015M	III
22-Sep-2011	SL-013-SA7-SS-0.0-0.5	6417428	N	METHOD	9012B	III
22-Sep-2011	SL-013-SA7-SS-0.0-0.5MSD	P417428M241338A	MSD	3550B	8151A	III
22-Sep-2011	SL-013-SA7-SS-0.0-0.5MS	P417428R241310A	MS	3550B	8151A	III
22-Sep-2011	SL-074-SA7-SB-4.0-5.0	6417441	N	3050B	6010B	III
22-Sep-2011	SL-074-SA7-SB-4.0-5.0	6417441	N	3050B	6020	III
22-Sep-2011	SL-074-SA7-SB-4.0-5.0	6417441	N	3060A	7199	III
22-Sep-2011	SL-074-SA7-SB-4.0-5.0	6417441	N	3550B	8015B	III
22-Sep-2011	SL-074-SA7-SB-4.0-5.0	6417441	N	3550B	8015M	III

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MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Sep-2011	SL-074-SA7-SB-4.0-5.0	6417441	N	3550B	8082	III
22-Sep-2011	SL-074-SA7-SB-4.0-5.0	6417441	N	3550B	8270C	III
22-Sep-2011	SL-074-SA7-SB-4.0-5.0	6417441	N	3550B	8270C SIM	III
22-Sep-2011	SL-074-SA7-SB-4.0-5.0	6417441	N	5035	8015M	III
22-Sep-2011	SL-074-SA7-SB-4.0-5.0	6417441	N	METHOD	300.0	III
22-Sep-2011	SL-074-SA7-SB-4.0-5.0	6417441	N	METHOD	314.0	III
22-Sep-2011	SL-074-SA7-SB-4.0-5.0	6417441	N	METHOD	7471A	III
22-Sep-2011	SL-074-SA7-SB-4.0-5.0	6417441	N	METHOD	8015B	III
22-Sep-2011	SL-074-SA7-SB-4.0-5.0	6417441	N	METHOD	8015M	III
22-Sep-2011	EB-SA7-SB-092211	6417446	EB	3005A	6010B	III
22-Sep-2011	EB-SA7-SB-092211	6417446	EB	3020A	6020	III
22-Sep-2011	EB-SA7-SB-092211	6417446	EB	3510C	8015B	III
22-Sep-2011	EB-SA7-SB-092211	6417446	EB	3510C	8015M	III
22-Sep-2011	EB-SA7-SB-092211	6417446	EB	3510C	8082	III
22-Sep-2011	EB-SA7-SB-092211	6417446	EB	3510C	8270C	III
22-Sep-2011	EB-SA7-SB-092211	6417446	EB	3510C	8270C SIM	III
22-Sep-2011	EB-SA7-SB-092211	6417446	EB	3520C	1625C	III
22-Sep-2011	EB-SA7-SB-092211	6417446	EB	5030B	8015M	III
22-Sep-2011	EB-SA7-SB-092211	6417446	EB	5030B	8260B	III
22-Sep-2011	EB-SA7-SB-092211	6417446	EB	5030B	8260B SIM	III
22-Sep-2011	EB-SA7-SB-092211	6417446	EB	8330	8330A	III
22-Sep-2011	EB-SA7-SB-092211	6417446	EB	Gen Prep	300.0	III
22-Sep-2011	EB-SA7-SB-092211	6417446	EB	Gen Prep	314.0	III
22-Sep-2011	EB-SA7-SB-092211	6417446	EB	Gen Prep	7199	III
22-Sep-2011	EB-SA7-SB-092211	6417446	EB	Gen Prep	8015B	III
22-Sep-2011	EB-SA7-SB-092211	6417446	EB	Gen Prep	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Sep-2011	EB-SA7-SB-092211	6417446	EB	METHOD	7470A	III
22-Sep-2011	EB-SA7-SB-092211	6417446	EB	METHOD	8315A	III
22-Sep-2011	EB-SA7-SB-092211	6417446	EB	METHOD	9012B	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-011-SA7-SS-0.0-0.5			Collected: 9/22/2011 10:35:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	0.80	U	0.80	MDL	1.0	PQL	mg/Kg	UJ	Q	

Sample ID: SL-012-SA7-SS-0.0-0.5			Collected: 9/22/2011 11:10:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	0.81	U	0.81	MDL	1.0	PQL	mg/Kg	UJ	Q	

Sample ID: SL-013-SA7-SS-0.0-0.5			Collected: 9/22/2011 11:35:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	0.83	U	0.83	MDL	1.0	PQL	mg/Kg	UJ	Q	

Sample ID: SL-020-SA7-SS-0.0-0.5			Collected: 9/22/2011 10:00:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	2.7		0.82	MDL	1.0	PQL	mg/Kg	J	Q	

Sample ID: SL-023-SA7-SS-0.0-0.5			Collected: 9/21/2011 2:15:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	0.81	U	0.81	MDL	1.0	PQL	mg/Kg	UJ	Q	

Sample ID: SL-055-SA7-SS-0.0-0.5			Collected: 9/22/2011 8:00:00			Analysis Type: REA			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
Nitrate-NO3	20.3		0.84	MDL	1.6	PQL	mg/Kg	J	Q	

Sample ID: SL-055-SA7-SS-0.0-0.5			Collected: 9/22/2011 8:00:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	0.84	U	0.84	MDL	1.1	PQL	mg/Kg	UJ	Q	

Sample ID: SL-088-SA7-SS-0.0-0.5			Collected: 9/22/2011 8:55:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	0.097	U	0.097	MDL	0.12	PQL	mg/Kg	UJ	Q	

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-101-SA7-SS-0.0-0.5 Collected: 9/22/2011 9:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.83	U	0.83	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-141-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.80	U	0.80	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-151-SA7-SS-0.0-0.5 Collected: 9/22/2011 7:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.81	U	0.81	MDL	1.0	PQL	mg/Kg	UJ	Q

Method Category:	METALS	
Method:	6010B	Matrix: AQ

Sample ID: EB-SA7-SB-092211 Collected: 9/22/2011 1:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0033	J	0.0022	MDL	0.0500	PQL	mg/L	J	Z

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-011-SA7-SS-0.0-0.5 Collected: 9/22/2011 10:35:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.42	J	0.360	MDL	5.00	PQL	mg/Kg	J	Z
SODIUM	49.8	J	5.95	MDL	100	PQL	mg/Kg	J	Z
TIN	2.37	J	0.320	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	0.932	J	0.460	MDL	5.00	PQL	mg/Kg	U	B

Sample ID: SL-012-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:10:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	56.4	J	5.87	MDL	98.7	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-012-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:10:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.46	J	0.316	MDL	9.87	PQL	mg/Kg	U	B
Zirconium	0.815	J	0.454	MDL	4.93	PQL	mg/Kg	U	B

Sample ID: SL-013-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:35:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	59.8	J	5.82	MDL	97.8	PQL	mg/Kg	J	Z
TIN	2.34	J	0.313	MDL	9.78	PQL	mg/Kg	U	B
Zirconium	0.700	J	0.450	MDL	4.89	PQL	mg/Kg	U	B

Sample ID: SL-020-SA7-SS-0.0-0.5 Collected: 9/22/2011 10:00:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	65.0	J	6.08	MDL	102	PQL	mg/Kg	J	Z
TIN	2.60	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	0.778	J	0.470	MDL	5.11	PQL	mg/Kg	U	B

Sample ID: SL-023-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:15:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	67.3	J	6.00	MDL	101	PQL	mg/Kg	J	Z
TIN	2.57	J	0.323	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	0.995	J	0.464	MDL	5.04	PQL	mg/Kg	U	B

Sample ID: SL-039-SA7-SB-4.0-5.0 Collected: 9/22/2011 11:32:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	100	J	6.49	MDL	109	PQL	mg/Kg	J	Z
TIN	2.81	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.51	J	0.502	MDL	5.45	PQL	mg/Kg	U	B

Sample ID: SL-055-SA7-SS-0.0-0.5 Collected: 9/22/2011 8:00:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	79.7	J	6.19	MDL	104	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-055-SA7-SS-0.0-0.5 Collected: 9/22/2011 8:00:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.45	J	0.333	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.01	J	0.479	MDL	5.20	PQL	mg/Kg	U	B

Sample ID: SL-072-SA7-SB-4.0-5.0 Collected: 9/22/2011 10:24:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.09	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	1.88	J	0.509	MDL	5.54	PQL	mg/Kg	U	B

Sample ID: SL-072-SA7-SB-7.5-8.5 Collected: 9/22/2011 10:30:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.94	J	0.384	MDL	5.33	PQL	mg/Kg	J	Z
SODIUM	86.1	J	6.34	MDL	107	PQL	mg/Kg	J	Z
TIN	2.74	J	0.341	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.60	J	0.490	MDL	5.33	PQL	mg/Kg	U	B

Sample ID: SL-074-SA7-SB-4.0-5.0 Collected: 9/22/2011 12:25:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	64.4	J	5.93	MDL	99.7	PQL	mg/Kg	J	Z
TIN	2.71	J	0.319	MDL	9.97	PQL	mg/Kg	U	B
Zirconium	1.43	J	0.459	MDL	4.99	PQL	mg/Kg	U	B

Sample ID: SL-075-SA7-SB-4.0-5.0 Collected: 9/22/2011 8:20:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	88.5	J	6.16	MDL	104	PQL	mg/Kg	J	Z
TIN	2.61	J	0.331	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.12	J	0.476	MDL	5.18	PQL	mg/Kg	U	B

Sample ID: SL-075-SA7-SB-9.0-10.0 Collected: 9/22/2011 8:26:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.32	J	0.338	MDL	10.6	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-075-SA7-SB-9.0-10.0 Collected: 9/22/2011 8:26:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	0.966	J	0.486	MDL	5.28	PQL	mg/Kg	U	B

Sample ID: SL-077-SA7-SB-4.0-5.0 Collected: 9/22/2011 9:31:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	89.4	J	6.23	MDL	105	PQL	mg/Kg	J	Z
TIN	2.77	J	0.335	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-088-SA7-SS-0.0-0.5 Collected: 9/22/2011 8:55:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	64.1	J	6.01	MDL	101	PQL	mg/Kg	J	Z
TIN	2.44	J	0.323	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.14	J	0.464	MDL	5.05	PQL	mg/Kg	U	B

Sample ID: SL-101-SA7-SS-0.0-0.5 Collected: 9/22/2011 9:25:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	64.0	J	5.99	MDL	101	PQL	mg/Kg	J	Z
TIN	2.74	J	0.322	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-141-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:45:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.04	J	0.363	MDL	5.05	PQL	mg/Kg	J	Z
SODIUM	54.9	J	6.01	MDL	101	PQL	mg/Kg	J	Z
TIN	2.28	J	0.323	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	0.910	J	0.464	MDL	5.05	PQL	mg/Kg	U	B

Sample ID: SL-142-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:00:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	69.9	J	5.91	MDL	99.3	PQL	mg/Kg	J	Z
TIN	2.21	J	0.318	MDL	9.93	PQL	mg/Kg	U	B
Zirconium	1.04	J	0.457	MDL	4.97	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6010B **Matrix:** SO

Sample ID: SL-143-SA7-SS-0.0-0.5 Collected: 9/21/2011 1:40:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	75.9	J	6.08	MDL	102	PQL	mg/Kg	J	Z
TIN	2.64	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	0.834	J	0.470	MDL	5.11	PQL	mg/Kg	U	B

Sample ID: SL-151-SA7-SS-0.0-0.5 Collected: 9/22/2011 7:40:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	72.7	J	6.10	MDL	102	PQL	mg/Kg	J	Z
TIN	2.73	J	0.328	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.32	J	0.471	MDL	5.12	PQL	mg/Kg	U	B

Method Category: METALS
Method: 6020 **Matrix:** AQ

Sample ID: EB-SA7-SB-092211 Collected: 9/22/2011 1:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.00042	J	0.00008 0	MDL	0.0010	PQL	mg/L	J	Z

Method Category: METALS
Method: 6020 **Matrix:** SO

Sample ID: SL-011-SA7-SS-0.0-0.5 Collected: 9/22/2011 10:35:00 Analysis Type: REA10 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.130	J	0.0575	MDL	0.396	PQL	mg/Kg	J	Z

Sample ID: SL-011-SA7-SS-0.0-0.5 Collected: 9/22/2011 10:35:00 Analysis Type: REA11 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.828		0.0495	MDL	0.0991	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS									
Method:	6020		Matrix:	SO						

Sample ID: SL-011-SA7-SS-0.0-0.5 Collected: 9/22/2011 10:35:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	4.10		0.0793	MDL	0.396	PQL	mg/Kg	J	Q, E
CADMIUM	0.0893	J	0.0436	MDL	0.0991	PQL	mg/Kg	J	Z
CHROMIUM	13.7		0.119	MDL	0.396	PQL	mg/Kg	J	Q, E
COBALT	3.95		0.0198	MDL	0.0991	PQL	mg/Kg	J	E
COPPER	10.9		0.0793	MDL	0.396	PQL	mg/Kg	J	Q, E
VANADIUM	23.1		0.0218	MDL	0.0991	PQL	mg/Kg	J	Q, E

Sample ID: SL-011-SA7-SS-0.0-0.5 Collected: 9/22/2011 10:35:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.141	J	0.0733	MDL	0.198	PQL	mg/Kg	J	Z, Q
LEAD	9.72		0.0101	MDL	0.198	PQL	mg/Kg	J	Q
NICKEL	16.3		0.0991	MDL	0.396	PQL	mg/Kg	J	E, Q

Sample ID: SL-012-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:10:00 Analysis Type: REA10 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0717	J	0.0584	MDL	0.402	PQL	mg/Kg	J	Z

Sample ID: SL-012-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:10:00 Analysis Type: REA11 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.284		0.0503	MDL	0.101	PQL	mg/Kg	J	E

Sample ID: SL-012-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:10:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0745	U	0.0745	MDL	0.201	PQL	mg/Kg	UJ	Q
ARSENIC	2.75		0.0805	MDL	0.402	PQL	mg/Kg	J	Q, E
CHROMIUM	9.40		0.121	MDL	0.402	PQL	mg/Kg	J	Q, E
COBALT	3.25		0.0201	MDL	0.101	PQL	mg/Kg	J	E
COPPER	5.14		0.0805	MDL	0.402	PQL	mg/Kg	J	Q, E
SILVER	0.0287	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z
VANADIUM	18.8		0.0221	MDL	0.101	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-012-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:10:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	22.6		0.0103	MDL	0.201	PQL	mg/Kg	J	Q
NICKEL	5.41		0.101	MDL	0.402	PQL	mg/Kg	J	E, Q

Sample ID: SL-013-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:35:00 Analysis Type: REA10 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.137	J	0.0584	MDL	0.403	PQL	mg/Kg	J	Z

Sample ID: SL-013-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:35:00 Analysis Type: REA11 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.423		0.0504	MDL	0.101	PQL	mg/Kg	J	E

Sample ID: SL-013-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:35:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	13.5		0.121	MDL	0.403	PQL	mg/Kg	J	Q, E
COBALT	4.15		0.0201	MDL	0.101	PQL	mg/Kg	J	E
COPPER	14.1		0.0806	MDL	0.403	PQL	mg/Kg	J	Q, E
VANADIUM	27.6		0.0222	MDL	0.101	PQL	mg/Kg	J	Q, E

Sample ID: SL-013-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:35:00 Analysis Type: REA5 Dilution: 2500

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	30200		12.8	MDL	252	PQL	mg/Kg	J	Q

Sample ID: SL-013-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:35:00 Analysis Type: REA6 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	7.79		0.101	MDL	0.403	PQL	mg/Kg	J	E, Q

Sample ID: SL-013-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:35:00 Analysis Type: REA7 Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	428		0.201	MDL	1.01	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-013-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:35:00 Analysis Type: REA8 Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.313	J	0.151	MDL	0.504	PQL	mg/Kg	J	Z

Sample ID: SL-013-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:35:00 Analysis Type: REA9 Dilution: 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1010		1.86	MDL	5.04	PQL	mg/Kg	J	Q

Sample ID: SL-020-SA7-SS-0.0-0.5 Collected: 9/22/2011 10:00:00 Analysis Type: REA10 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.152	J	0.0576	MDL	0.397	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA7-SS-0.0-0.5 Collected: 9/22/2011 10:00:00 Analysis Type: REA11 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.416		0.0496	MDL	0.0993	PQL	mg/Kg	J	E

Sample ID: SL-020-SA7-SS-0.0-0.5 Collected: 9/22/2011 10:00:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	3.97		0.0794	MDL	0.397	PQL	mg/Kg	J	Q, E
CHROMIUM	16.9		0.119	MDL	0.397	PQL	mg/Kg	J	Q, E
COBALT	6.14		0.0199	MDL	0.0993	PQL	mg/Kg	J	E
COPPER	6.11		0.0794	MDL	0.397	PQL	mg/Kg	J	Q, E
SILVER	0.0274	J	0.0141	MDL	0.0993	PQL	mg/Kg	J	Z
VANADIUM	35.4		0.0218	MDL	0.0993	PQL	mg/Kg	J	Q, E

Sample ID: SL-020-SA7-SS-0.0-0.5 Collected: 9/22/2011 10:00:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0735	U	0.0735	MDL	0.199	PQL	mg/Kg	UJ	Q
LEAD	6.99		0.0101	MDL	0.199	PQL	mg/Kg	J	Q
NICKEL	9.73		0.0993	MDL	0.397	PQL	mg/Kg	J	E, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-023-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:15:00 Analysis Type: REA10 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.100	J	0.0563	MDL	0.388	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:15:00 Analysis Type: REA11 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.410		0.0485	MDL	0.0970	PQL	mg/Kg	J	E

Sample ID: SL-023-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:15:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	3.49		0.0776	MDL	0.388	PQL	mg/Kg	J	Q, E
CHROMIUM	13.3		0.116	MDL	0.388	PQL	mg/Kg	J	Q, E
COBALT	4.44		0.0194	MDL	0.0970	PQL	mg/Kg	J	E
COPPER	7.20		0.0776	MDL	0.388	PQL	mg/Kg	J	Q, E
SILVER	0.0276	J	0.0138	MDL	0.0970	PQL	mg/Kg	J	Z
VANADIUM	26.6		0.0213	MDL	0.0970	PQL	mg/Kg	J	Q, E

Sample ID: SL-023-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:15:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0718	U	0.0718	MDL	0.194	PQL	mg/Kg	UJ	Q
LEAD	12.1		0.0099	MDL	0.194	PQL	mg/Kg	J	Q
NICKEL	8.08		0.0970	MDL	0.388	PQL	mg/Kg	J	E, Q

Sample ID: SL-039-SA7-SB-4.0-5.0 Collected: 9/22/2011 11:32:00 Analysis Type: REA10 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.192	J	0.0645	MDL	0.445	PQL	mg/Kg	J	Z

Sample ID: SL-039-SA7-SB-4.0-5.0 Collected: 9/22/2011 11:32:00 Analysis Type: REA11 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.739		0.0556	MDL	0.111	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6020 **Matrix:** SO

Sample ID: SL-039-SA7-SB-4.0-5.0 Collected: 9/22/2011 11:32:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0823	U	0.0823	MDL	0.222	PQL	mg/Kg	UJ	Q
ARSENIC	4.59		0.0890	MDL	0.445	PQL	mg/Kg	J	Q, E
CHROMIUM	16.7		0.133	MDL	0.445	PQL	mg/Kg	J	Q, E
COBALT	3.40		0.0222	MDL	0.111	PQL	mg/Kg	J	E
COPPER	3.43		0.0890	MDL	0.445	PQL	mg/Kg	J	Q, E
SILVER	0.0380	J	0.0158	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	35.6		0.0245	MDL	0.111	PQL	mg/Kg	J	Q, E

Sample ID: SL-039-SA7-SB-4.0-5.0 Collected: 9/22/2011 11:32:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	6.42		0.0113	MDL	0.222	PQL	mg/Kg	J	Q
NICKEL	6.91		0.111	MDL	0.445	PQL	mg/Kg	J	E, Q

Sample ID: SL-055-SA7-SS-0.0-0.5 Collected: 9/22/2011 8:00:00 Analysis Type: REA10 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.127	J	0.0598	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-055-SA7-SS-0.0-0.5 Collected: 9/22/2011 8:00:00 Analysis Type: REA11 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.484		0.0515	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-055-SA7-SS-0.0-0.5 Collected: 9/22/2011 8:00:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	3.10		0.0824	MDL	0.412	PQL	mg/Kg	J	Q, E
CHROMIUM	11.3		0.124	MDL	0.412	PQL	mg/Kg	J	Q, E
COBALT	3.38		0.0206	MDL	0.103	PQL	mg/Kg	J	E
COPPER	7.31		0.0824	MDL	0.412	PQL	mg/Kg	J	Q, E
SILVER	0.0297	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	21.4		0.0227	MDL	0.103	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS									
Method:	6020								Matrix:	SO

Sample ID: SL-055-SA7-SS-0.0-0.5 Collected: 9/22/2011 8:00:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0789	J	0.0762	MDL	0.206	PQL	mg/Kg	J	Z, Q
LEAD	15.9		0.0105	MDL	0.206	PQL	mg/Kg	J	Q
NICKEL	7.13		0.103	MDL	0.412	PQL	mg/Kg	J	E, Q

Sample ID: SL-072-SA7-SB-4.0-5.0 Collected: 9/22/2011 10:24:00 Analysis Type: REA10 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.215	J	0.0636	MDL	0.439	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA7-SB-4.0-5.0 Collected: 9/22/2011 10:24:00 Analysis Type: REA11 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.09		0.0548	MDL	0.110	PQL	mg/Kg	J	E

Sample ID: SL-072-SA7-SB-4.0-5.0 Collected: 9/22/2011 10:24:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0909	J	0.0812	MDL	0.219	PQL	mg/Kg	J	Z, Q
ARSENIC	5.09		0.0877	MDL	0.439	PQL	mg/Kg	J	Q, E
CHROMIUM	19.7		0.132	MDL	0.439	PQL	mg/Kg	J	Q, E
COBALT	3.74		0.0219	MDL	0.110	PQL	mg/Kg	J	E
COPPER	4.44		0.0877	MDL	0.439	PQL	mg/Kg	J	Q, E
LEAD	6.90		0.0112	MDL	0.219	PQL	mg/Kg	J	Q
NICKEL	8.43		0.110	MDL	0.439	PQL	mg/Kg	J	E, Q
SILVER	0.0302	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	41.7		0.0241	MDL	0.110	PQL	mg/Kg	J	Q, E

Sample ID: SL-072-SA7-SB-7.5-8.5 Collected: 9/22/2011 10:30:00 Analysis Type: REA10 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.143	J	0.0624	MDL	0.431	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-072-SA7-SB-7.5-8.5 Collected: 9/22/2011 10:30:00 Analysis Type: REA11 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.398		0.0538	MDL	0.108	PQL	mg/Kg	J	E

Sample ID: SL-072-SA7-SB-7.5-8.5 Collected: 9/22/2011 10:30:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0797	U	0.0797	MDL	0.215	PQL	mg/Kg	UJ	Q
ARSENIC	3.71		0.0861	MDL	0.431	PQL	mg/Kg	J	Q, E
CHROMIUM	11.6		0.129	MDL	0.431	PQL	mg/Kg	J	Q, E
COBALT	2.57		0.0215	MDL	0.108	PQL	mg/Kg	J	E
COPPER	3.52		0.0861	MDL	0.431	PQL	mg/Kg	J	Q, E
LEAD	4.88		0.0110	MDL	0.215	PQL	mg/Kg	J	Q
NICKEL	5.05		0.108	MDL	0.431	PQL	mg/Kg	J	E, Q
SILVER	0.0183	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	24.2		0.0237	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: SL-074-SA7-SB-4.0-5.0 Collected: 9/22/2011 12:25:00 Analysis Type: REA10 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.181	J	0.0607	MDL	0.419	PQL	mg/Kg	J	Z

Sample ID: SL-074-SA7-SB-4.0-5.0 Collected: 9/22/2011 12:25:00 Analysis Type: REA11 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.461		0.0524	MDL	0.105	PQL	mg/Kg	J	E

Sample ID: SL-074-SA7-SB-4.0-5.0 Collected: 9/22/2011 12:25:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0775	U	0.0775	MDL	0.209	PQL	mg/Kg	UJ	Q
ARSENIC	4.64		0.0838	MDL	0.419	PQL	mg/Kg	J	Q, E
CHROMIUM	14.2		0.126	MDL	0.419	PQL	mg/Kg	J	Q, E
COBALT	4.59		0.0209	MDL	0.105	PQL	mg/Kg	J	E
COPPER	4.90		0.0838	MDL	0.419	PQL	mg/Kg	J	Q, E
LEAD	5.23		0.0107	MDL	0.209	PQL	mg/Kg	J	Q
NICKEL	8.39		0.105	MDL	0.419	PQL	mg/Kg	J	E, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-074-SA7-SB-4.0-5.0 Collected: 9/22/2011 12:25:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0298	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	30.5		0.0230	MDL	0.105	PQL	mg/Kg	J	Q, E

Sample ID: SL-075-SA7-SB-4.0-5.0 Collected: 9/22/2011 8:20:00 Analysis Type: REA10 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.292	J	0.0607	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-075-SA7-SB-4.0-5.0 Collected: 9/22/2011 8:20:00 Analysis Type: REA11 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.827		0.0523	MDL	0.105	PQL	mg/Kg	J	E

Sample ID: SL-075-SA7-SB-4.0-5.0 Collected: 9/22/2011 8:20:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0774	U	0.0774	MDL	0.209	PQL	mg/Kg	UJ	Q
ARSENIC	4.71		0.0837	MDL	0.418	PQL	mg/Kg	J	Q, E
CADMIUM	0.0860	J	0.0460	MDL	0.105	PQL	mg/Kg	J	Z
CHROMIUM	16.1		0.126	MDL	0.418	PQL	mg/Kg	J	Q, E
COBALT	4.83		0.0209	MDL	0.105	PQL	mg/Kg	J	E
COPPER	6.38		0.0837	MDL	0.418	PQL	mg/Kg	J	Q, E
LEAD	5.44		0.0107	MDL	0.209	PQL	mg/Kg	J	Q
NICKEL	9.50		0.105	MDL	0.418	PQL	mg/Kg	J	E, Q
SILVER	0.0285	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	34.6		0.0230	MDL	0.105	PQL	mg/Kg	J	Q, E

Sample ID: SL-075-SA7-SB-9.0-10.0 Collected: 9/22/2011 8:26:00 Analysis Type: REA10 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.195	J	0.0618	MDL	0.426	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-075-SA7-SB-9.0-10.0 Collected: 9/22/2011 8:26:00 Analysis Type: REA11 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.469		0.0533	MDL	0.107	PQL	mg/Kg	J	E

Sample ID: SL-075-SA7-SB-9.0-10.0 Collected: 9/22/2011 8:26:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0789	U	0.0789	MDL	0.213	PQL	mg/Kg	UJ	Q
ARSENIC	3.85		0.0853	MDL	0.426	PQL	mg/Kg	J	Q, E
CHROMIUM	13.8		0.128	MDL	0.426	PQL	mg/Kg	J	Q, E
COBALT	4.51		0.0213	MDL	0.107	PQL	mg/Kg	J	E
COPPER	6.13		0.0853	MDL	0.426	PQL	mg/Kg	J	Q, E
LEAD	6.44		0.0109	MDL	0.213	PQL	mg/Kg	J	Q
NICKEL	9.10		0.107	MDL	0.426	PQL	mg/Kg	J	E, Q
SILVER	0.0231	J	0.0151	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	27.4		0.0235	MDL	0.107	PQL	mg/Kg	J	Q, E

Sample ID: SL-077-SA7-SB-4.0-5.0 Collected: 9/22/2011 9:31:00 Analysis Type: REA10 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0815	J	0.0607	MDL	0.419	PQL	mg/Kg	J	Z

Sample ID: SL-077-SA7-SB-4.0-5.0 Collected: 9/22/2011 9:31:00 Analysis Type: REA11 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.469		0.0523	MDL	0.105	PQL	mg/Kg	J	E

Sample ID: SL-077-SA7-SB-4.0-5.0 Collected: 9/22/2011 9:31:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0774	U	0.0774	MDL	0.209	PQL	mg/Kg	UJ	Q
ARSENIC	3.94		0.0837	MDL	0.419	PQL	mg/Kg	J	Q, E
CADMIUM	0.0681	J	0.0461	MDL	0.105	PQL	mg/Kg	J	Z
CHROMIUM	11.9		0.126	MDL	0.419	PQL	mg/Kg	J	Q, E
COBALT	5.13		0.0209	MDL	0.105	PQL	mg/Kg	J	E
COPPER	5.15		0.0837	MDL	0.419	PQL	mg/Kg	J	Q, E
LEAD	3.99		0.0107	MDL	0.209	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	6020	Matrix:	SO
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Sample ID: SL-077-SA7-SB-4.0-5.0 Collected: 9/22/2011 9:31:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	8.22		0.105	MDL	0.419	PQL	mg/Kg	J	E, Q
SILVER	0.0219	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	23.4		0.0230	MDL	0.105	PQL	mg/Kg	J	Q, E

Sample ID: SL-088-SA7-SS-0.0-0.5 Collected: 9/22/2011 8:55:00 Analysis Type: REA10 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.190	J	0.0563	MDL	0.388	PQL	mg/Kg	J	Z

Sample ID: SL-088-SA7-SS-0.0-0.5 Collected: 9/22/2011 8:55:00 Analysis Type: REA11 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.449		0.0485	MDL	0.0971	PQL	mg/Kg	J	E

Sample ID: SL-088-SA7-SS-0.0-0.5 Collected: 9/22/2011 8:55:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	4.01		0.0777	MDL	0.388	PQL	mg/Kg	J	Q, E
CHROMIUM	21.5		0.116	MDL	0.388	PQL	mg/Kg	J	Q, E
COBALT	5.73		0.0194	MDL	0.0971	PQL	mg/Kg	J	E
COPPER	8.94		0.0777	MDL	0.388	PQL	mg/Kg	J	Q, E
SILVER	0.0431	J	0.0138	MDL	0.0971	PQL	mg/Kg	J	Z
VANADIUM	42.1		0.0214	MDL	0.0971	PQL	mg/Kg	J	Q, E

Sample ID: SL-088-SA7-SS-0.0-0.5 Collected: 9/22/2011 8:55:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.108	J	0.0718	MDL	0.194	PQL	mg/Kg	J	Z, Q
LEAD	14.2		0.0099	MDL	0.194	PQL	mg/Kg	J	Q
NICKEL	13.6		0.0971	MDL	0.388	PQL	mg/Kg	J	E, Q

Sample ID: SL-101-SA7-SS-0.0-0.5 Collected: 9/22/2011 9:25:00 Analysis Type: REA10 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.140	J	0.0584	MDL	0.403	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-101-SA7-SS-0.0-0.5 Collected: 9/22/2011 9:25:00 Analysis Type: REA11 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.534		0.0504	MDL	0.101	PQL	mg/Kg	J	E

Sample ID: SL-101-SA7-SS-0.0-0.5 Collected: 9/22/2011 9:25:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	3.23		0.0806	MDL	0.403	PQL	mg/Kg	J	Q, E
CHROMIUM	21.0		0.121	MDL	0.403	PQL	mg/Kg	J	Q, E
COBALT	4.53		0.0201	MDL	0.101	PQL	mg/Kg	J	E
COPPER	22.1		0.0806	MDL	0.403	PQL	mg/Kg	J	Q, E
VANADIUM	24.0		0.0222	MDL	0.101	PQL	mg/Kg	J	Q, E

Sample ID: SL-101-SA7-SS-0.0-0.5 Collected: 9/22/2011 9:25:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.119	J	0.0745	MDL	0.201	PQL	mg/Kg	J	Z, Q
LEAD	47.1		0.0103	MDL	0.201	PQL	mg/Kg	J	Q
NICKEL	13.2		0.101	MDL	0.403	PQL	mg/Kg	J	E, Q

Sample ID: SL-141-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:45:00 Analysis Type: REA10 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.133	J	0.0580	MDL	0.400	PQL	mg/Kg	J	Z

Sample ID: SL-141-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:45:00 Analysis Type: REA11 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.327		0.0500	MDL	0.0999	PQL	mg/Kg	J	E

Sample ID: SL-141-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:45:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	4.02		0.0799	MDL	0.400	PQL	mg/Kg	J	Q, E
CHROMIUM	17.2		0.120	MDL	0.400	PQL	mg/Kg	J	Q, E
COBALT	5.38		0.0200	MDL	0.0999	PQL	mg/Kg	J	E
COPPER	8.63		0.0799	MDL	0.400	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-141-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:45:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0270	J	0.0142	MDL	0.0999	PQL	mg/Kg	J	Z
VANADIUM	32.2		0.0220	MDL	0.0999	PQL	mg/Kg	J	Q, E

Sample ID: SL-141-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:45:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0807	J	0.0739	MDL	0.200	PQL	mg/Kg	J	Z, Q
LEAD	8.83		0.0102	MDL	0.200	PQL	mg/Kg	J	Q
NICKEL	9.53		0.0999	MDL	0.400	PQL	mg/Kg	J	E, Q

Sample ID: SL-142-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:00:00 Analysis Type: REA10 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.104	J	0.0565	MDL	0.390	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:00:00 Analysis Type: REA11 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.370		0.0487	MDL	0.0974	PQL	mg/Kg	J	E

Sample ID: SL-142-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:00:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	3.12		0.0779	MDL	0.390	PQL	mg/Kg	J	Q, E
CHROMIUM	13.0		0.117	MDL	0.390	PQL	mg/Kg	J	Q, E
COBALT	4.32		0.0195	MDL	0.0974	PQL	mg/Kg	J	E
COPPER	7.09		0.0779	MDL	0.390	PQL	mg/Kg	J	Q, E
SILVER	0.0273	J	0.0138	MDL	0.0974	PQL	mg/Kg	J	Z
VANADIUM	25.8		0.0214	MDL	0.0974	PQL	mg/Kg	J	Q, E

Sample ID: SL-142-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:00:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0776	J	0.0721	MDL	0.195	PQL	mg/Kg	J	Z, Q
LEAD	10.6		0.0099	MDL	0.195	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-142-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:00:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	7.89		0.0974	MDL	0.390	PQL	mg/Kg	J	E, Q

Sample ID: SL-143-SA7-SS-0.0-0.5 Collected: 9/21/2011 1:40:00 Analysis Type: REA10 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.113	J	0.0581	MDL	0.401	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA7-SS-0.0-0.5 Collected: 9/21/2011 1:40:00 Analysis Type: REA11 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.422		0.0501	MDL	0.100	PQL	mg/Kg	J	E

Sample ID: SL-143-SA7-SS-0.0-0.5 Collected: 9/21/2011 1:40:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	3.80		0.0802	MDL	0.401	PQL	mg/Kg	J	Q, E
CHROMIUM	17.0		0.120	MDL	0.401	PQL	mg/Kg	J	Q, E
COBALT	4.69		0.0200	MDL	0.100	PQL	mg/Kg	J	E
COPPER	6.53		0.0802	MDL	0.401	PQL	mg/Kg	J	Q, E
SILVER	0.0397	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z
VANADIUM	33.1		0.0220	MDL	0.100	PQL	mg/Kg	J	Q, E

Sample ID: SL-143-SA7-SS-0.0-0.5 Collected: 9/21/2011 1:40:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0741	U	0.0741	MDL	0.200	PQL	mg/Kg	UJ	Q
LEAD	8.42		0.0102	MDL	0.200	PQL	mg/Kg	J	Q
NICKEL	8.20		0.100	MDL	0.401	PQL	mg/Kg	J	E, Q

Sample ID: SL-151-SA7-SS-0.0-0.5 Collected: 9/22/2011 7:40:00 Analysis Type: REA10 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.118	J	0.0577	MDL	0.398	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-151-SA7-SS-0.0-0.5 Collected: 9/22/2011 7:40:00 Analysis Type: REA11 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.464		0.0497	MDL	0.0995	PQL	mg/Kg	J	E

Sample ID: SL-151-SA7-SS-0.0-0.5 Collected: 9/22/2011 7:40:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	3.60		0.0796	MDL	0.398	PQL	mg/Kg	J	Q, E
CHROMIUM	16.7		0.119	MDL	0.398	PQL	mg/Kg	J	Q, E
COBALT	4.25		0.0199	MDL	0.0995	PQL	mg/Kg	J	E
COPPER	8.53		0.0796	MDL	0.398	PQL	mg/Kg	J	Q, E
VANADIUM	27.1		0.0219	MDL	0.0995	PQL	mg/Kg	J	Q, E

Sample ID: SL-151-SA7-SS-0.0-0.5 Collected: 9/22/2011 7:40:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.104	J	0.0736	MDL	0.199	PQL	mg/Kg	J	Z, Q
LEAD	33.1		0.0101	MDL	0.199	PQL	mg/Kg	J	Q
NICKEL	8.70		0.0995	MDL	0.398	PQL	mg/Kg	J	E, Q

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-012-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-039-SA7-SB-4.0-5.0 Collected: 9/22/2011 11:32:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.64	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA7-SB-4.0-5.0 Collected: 9/22/2011 10:24:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.93	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-072-SA7-SB-7.5-8.5	Collected: 9/22/2011 10:30:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.85	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-074-SA7-SB-4.0-5.0	Collected: 9/22/2011 12:25:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.25	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-075-SA7-SB-4.0-5.0	Collected: 9/22/2011 8:20:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.29	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-075-SA7-SB-9.0-10.0	Collected: 9/22/2011 8:26:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-077-SA7-SB-4.0-5.0	Collected: 9/22/2011 9:31:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-101-SA7-SS-0.0-0.5	Collected: 9/22/2011 9:25:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.23	J	0.20	MDL	1.0	PQL	mg/Kg	U	F

Sample ID: SL-141-SA7-SS-0.0-0.5	Collected: 9/21/2011 2:45:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.42	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-151-SA7-SS-0.0-0.5	Collected: 9/22/2011 7:40:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.60	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7199	Matrix: SO

Method Category:	METALS	
Method:	7470A	Matrix: AQ

Sample ID: EB-SA7-SB-092211	Collected: 9/22/2011 1:00:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.000041	J	0.000026	MDL	0.00020	PQL	mg/L	U	B, B

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-012-SA7-SS-0.0-0.5	Collected: 9/22/2011 11:10:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0145	J	0.0070	MDL	0.0988	PQL	mg/Kg	U	F

Sample ID: SL-013-SA7-SS-0.0-0.5	Collected: 9/22/2011 11:35:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0096	J	0.0069	MDL	0.0978	PQL	mg/Kg	U	F

Sample ID: SL-020-SA7-SS-0.0-0.5	Collected: 9/22/2011 10:00:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0113	J	0.0069	MDL	0.0980	PQL	mg/Kg	U	F

Sample ID: SL-023-SA7-SS-0.0-0.5	Collected: 9/21/2011 2:15:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0513	J	0.0068	MDL	0.0974	PQL	mg/Kg	J	Z

Sample ID: SL-039-SA7-SB-4.0-5.0	Collected: 9/22/2011 11:32:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0165	J	0.0075	MDL	0.106	PQL	mg/Kg	U	F

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-055-SA7-SS-0.0-0.5 Collected: 9/22/2011 8:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0409	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA7-SB-4.0-5.0 Collected: 9/22/2011 10:24:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0139	J	0.0073	MDL	0.104	PQL	mg/Kg	U	F

Sample ID: SL-075-SA7-SB-4.0-5.0 Collected: 9/22/2011 8:20:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0073	J	0.0070	MDL	0.100	PQL	mg/Kg	U	F

Sample ID: SL-075-SA7-SB-9.0-10.0 Collected: 9/22/2011 8:26:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0137	J	0.0075	MDL	0.107	PQL	mg/Kg	U	F

Sample ID: SL-088-SA7-SS-0.0-0.5 Collected: 9/22/2011 8:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0195	J	0.0069	MDL	0.0977	PQL	mg/Kg	U	F

Sample ID: SL-101-SA7-SS-0.0-0.5 Collected: 9/22/2011 9:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0242	J	0.0068	MDL	0.0962	PQL	mg/Kg	J	Z

Sample ID: SL-141-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0688	J	0.0069	MDL	0.0988	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0433	J	0.0070	MDL	0.0989	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-143-SA7-SS-0.0-0.5 Collected: 9/21/2011 1:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0253	J	0.0070	MDL	0.0999	PQL	mg/Kg	U	F

Sample ID: SL-151-SA7-SS-0.0-0.5 Collected: 9/22/2011 7:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0600	J	0.0070	MDL	0.0995	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	1625C	Matrix: AQ

Sample ID: EB-SA7-SB-092211 Collected: 9/22/2011 1:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	3.19		0.525	MDL	1.05	PQL	ng/L	UJ	B, S

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-012-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	2.0		0.41	MDL	1.2	PQL	mg/Kg	J	Q
EFH (C21-C30)	14		0.41	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-013-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:35:00 Analysis Type: REA Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	2.7	J	2.0	MDL	6.1	PQL	mg/Kg	J	Z

Sample ID: SL-055-SA7-SS-0.0-0.5 Collected: 9/22/2011 8:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q
Propylene glycol	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-072-SA7-SB-4.0-5.0 Collected: 9/22/2011 10:24:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	1.1	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-074-SA7-SB-4.0-5.0 Collected: 9/22/2011 12:25:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.83	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-075-SA7-SB-9.0-10.0 Collected: 9/22/2011 8:26:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.68	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:00:00 Analysis Type: REA Dilution: 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	12	J	8.1	MDL	24	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA7-SS-0.0-0.5 Collected: 9/21/2011 1:40:00 Analysis Type: REA Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	4.3	J	2.1	MDL	6.2	PQL	mg/Kg	J	Z

Sample ID: SL-151-SA7-SS-0.0-0.5 Collected: 9/22/2011 7:40:00 Analysis Type: REA Dilution: 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	9.2	J	8.2	MDL	25	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	8081A	Matrix: SO

Sample ID: SL-011-SA7-SS-0.0-0.5 Collected: 9/22/2011 10:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	2.9		0.067	MDL	0.35	PQL	ug/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8081A	Matrix:	SO
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Sample ID: SL-012-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
gamma-BHC (Lindane)	0.14	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	1.6		0.067	MDL	0.35	PQL	ug/Kg	J	S
Chlordane	8.0		0.81	MDL	3.5	PQL	ug/Kg	J	S
HEPTACHLOR	0.081	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z, S

Sample ID: SL-023-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALDRIN	0.12	J	0.067	MDL	0.17	PQL	ug/Kg	J	Z, S
ALPHA-BHC	0.059	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z, S

Sample ID: SL-055-SA7-SS-0.0-0.5 Collected: 9/22/2011 8:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.072	J	0.037	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-088-SA7-SS-0.0-0.5 Collected: 9/22/2011 8:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	1.1		0.067	MDL	0.35	PQL	ug/Kg	J	S
4,4'-DDT	2.8		0.067	MDL	0.35	PQL	ug/Kg	J	S
Chlordane	6.5		0.82	MDL	3.5	PQL	ug/Kg	J	S
HEPTACHLOR	0.11	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z, S

Sample ID: SL-101-SA7-SS-0.0-0.5 Collected: 9/22/2011 9:25:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	10		0.81	MDL	3.5	PQL	ug/Kg	J	S
ENDOSULFAN II	1.5		0.067	MDL	0.35	PQL	ug/Kg	J	S
gamma-BHC (Lindane)	0.064	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z, S
HEPTACHLOR	0.072	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z, S

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8081A	Matrix: SO

Sample ID: SL-141-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDRIN ALDEHYDE	0.46		0.067	MDL	0.34	PQL	ug/Kg	J	S
ENDRIN KETONE	0.23	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z, S
TOXAPHENE	9.1		2.2	MDL	6.7	PQL	ug/Kg	J	S

Sample ID: SL-142-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEPTACHLOR	0.098	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-143-SA7-SS-0.0-0.5 Collected: 9/21/2011 1:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	1.1		0.068	MDL	0.35	PQL	ug/Kg	J	S
4,4'-DDT	0.94		0.068	MDL	0.35	PQL	ug/Kg	J	S
HEPTACHLOR	0.095	J	0.062	MDL	0.17	PQL	ug/Kg	J	Z, S
HEPTACHLOR EPOXIDE	0.12	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z, S

Sample ID: SL-151-SA7-SS-0.0-0.5 Collected: 9/22/2011 7:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.64	U	0.64	MDL	0.64	PQL	ug/Kg	R	S
4,4'-DDE	2.6	U	2.6	MDL	2.6	PQL	ug/Kg	R	S
ALDRIN	0.067	U	0.067	MDL	0.17	PQL	ug/Kg	R	S
ALPHA-BHC	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	R	S
BETA-BHC	0.067	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z, S
Chlordane	4.9		0.81	MDL	3.5	PQL	ug/Kg	J	S
DELTA-BHC	0.037	U	0.037	MDL	0.17	PQL	ug/Kg	R	S
DIELDRIN	0.49	U	0.49	MDL	0.49	PQL	ug/Kg	R	S
ENDOSULFAN I	0.045	U	0.045	MDL	0.17	PQL	ug/Kg	R	S
ENDOSULFAN II	0.37	U	0.37	MDL	0.37	PQL	ug/Kg	R	S
ENDOSULFAN SULFATE	0.42	U	0.42	MDL	0.42	PQL	ug/Kg	R	S
ENDRIN	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	R	S
ENDRIN ALDEHYDE	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	R	S
ENDRIN KETONE	0.88	U	0.88	MDL	0.88	PQL	ug/Kg	R	S
gamma-BHC (Lindane)	0.070	U	0.070	MDL	0.17	PQL	ug/Kg	R	S

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8081A	Matrix: SO

Sample ID: SL-151-SA7-SS-0.0-0.5 Collected: 9/22/2011 7:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEPTACHLOR	0.064	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z, S
HEPTACHLOR EPOXIDE	0.22	U	0.22	MDL	0.22	PQL	ug/Kg	R	S
METHOXYCHLOR	0.74	U	0.74	MDL	1.7	PQL	ug/Kg	R	S
MIREX	1.5	U	1.5	MDL	1.5	PQL	ug/Kg	R	S
TOXAPHENE	37	U	37	MDL	37	PQL	ug/Kg	R	S

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-011-SA7-SS-0.0-0.5 Collected: 9/22/2011 10:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	1.5	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.9	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	3.2	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-020-SA7-SS-0.0-0.5 Collected: 9/22/2011 10:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.5	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	1.9	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-072-SA7-SB-4.0-5.0 Collected: 9/22/2011 10:24:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.46	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-075-SA7-SB-4.0-5.0 Collected: 9/22/2011 8:20:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.67	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	2.2	J	1.0	MDL	3.5	PQL	ug/Kg	J	Z

Sample ID: SL-075-SA7-SB-9.0-10.0 Collected: 9/22/2011 8:26:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1242	0.74	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8151A	Matrix: SO

Sample ID: SL-013-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	17		0.63	MDL	1.7	PQL	ug/Kg	J	Q

Sample ID: SL-020-SA7-SS-0.0-0.5 Collected: 9/22/2011 10:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.43	J	0.41	MDL	1.2	PQL	ug/Kg	J	Z

Sample ID: SL-151-SA7-SS-0.0-0.5 Collected: 9/22/2011 7:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.81	J	0.41	MDL	1.2	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8270C	Matrix: AQ

Sample ID: EB-SA7-SB-092211 Collected: 9/22/2011 1:00:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	7	U	7	MDL	17	PQL	ug/L	UJ	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-011-SA7-SS-0.0-0.5 Collected: 9/22/2011 10:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	R	Q

Sample ID: SL-020-SA7-SS-0.0-0.5 Collected: 9/22/2011 10:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	21	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	29	J	17	MDL	170	PQL	ug/Kg	J	Z, L
PYRENE	26	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-072-SA7-SB-7.5-8.5 Collected: 9/22/2011 10:30:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-088-SA7-SS-0.0-0.5 Collected: 9/22/2011 8:55:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	210	J	170	MDL	500	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	84	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-101-SA7-SS-0.0-0.5 Collected: 9/22/2011 9:25:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	33	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	24	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-142-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	20	J	17	MDL	170	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C SIM	Matrix: AQ

Sample ID: EB-SA7-SB-092211 Collected: 9/22/2011 1:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.15	J	0.051	MDL	1.0	PQL	ug/L	U	B
Diethylphthalate	0.34	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.82	J	0.051	MDL	1.0	PQL	ug/L	J	Z

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: SL-011-SA7-SS-0.0-0.5 Collected: 9/22/2011 10:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.93	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.96	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.95	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	17	J	6.1	MDL	18	PQL	ug/Kg	J	Z
Butylbenzylphthalate	11	J	6.1	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.95	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.88	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.2	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.89	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	0.62	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.73	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-butylphthalate	14	J	6.1	MDL	18	PQL	ug/Kg	J	Z
NAPHTHALENE	1.4	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA7-SS-0.0-0.5 Collected: 9/22/2011 11:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.79	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.0	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-butylphthalate	11	J	6.1	MDL	18	PQL	ug/Kg	J	Z
NAPHTHALENE	1.0	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8270C SIM **Matrix:** SO

Sample ID: SL-020-SA7-SS-0.0-0.5 Collected: 9/22/2011 10:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	1.1	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.3	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.6	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.83	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.4	J	6.1	MDL	18	PQL	ug/Kg	J	Z
Butylbenzylphthalate	15	J	6.1	MDL	18	PQL	ug/Kg	J	Z
PHENANTHRENE	1.3	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-023-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.96	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	1.2	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	0.68	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	8.7	J	6.1	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-055-SA7-SS-0.0-0.5 Collected: 9/22/2011 8:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	1.3	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
ACENAPHTHENE	0.82	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	1.1	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	14	J	6.1	MDL	18	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.77	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-072-SA7-SB-4.0-5.0 Collected: 9/22/2011 10:24:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.82	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.97	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-072-SA7-SB-7.5-8.5 Collected: 9/22/2011 10:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	1.1	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: SL-072-SA7-SB-7.5-8.5 Collected: 9/22/2011 10:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	1.1	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	1.1	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.87	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-074-SA7-SB-4.0-5.0 Collected: 9/22/2011 12:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.2	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
FLUORENE	0.71	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.81	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-075-SA7-SB-4.0-5.0 Collected: 9/22/2011 8:20:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.96	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	1.4	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-075-SA7-SB-9.0-10.0 Collected: 9/22/2011 8:26:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.0	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	6.6	MDL	20	PQL	ug/Kg	J	Z
NAPHTHALENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-077-SA7-SB-4.0-5.0 Collected: 9/22/2011 9:31:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.86	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.7	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHENE	1.3	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
FLUORENE	0.77	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.0	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8270C SIM	Matrix:	SO
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Sample ID: SL-088-SA7-SS-0.0-0.5 Collected: 9/22/2011 8:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	1.2	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.2	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.75	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	6.3	J	6.1	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.95	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-101-SA7-SS-0.0-0.5 Collected: 9/22/2011 9:25:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	8.2	J	6.1	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-141-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.76	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
ACENAPHTHENE	0.77	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	1.3	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	0.51	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-142-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.90	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.57	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	0.42	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.3	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.3	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-143-SA7-SS-0.0-0.5 Collected: 9/21/2011 1:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.91	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	0.53	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.1	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: SL-143-SA7-SS-0.0-0.5 Collected: 9/21/2011 1:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	0.72	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.4	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
FLUORENE	1.5	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.70	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-151-SA7-SS-0.0-0.5 Collected: 9/22/2011 7:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.70	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.1	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.47	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	14	J	6.1	MDL	18	PQL	ug/Kg	J	Z
Di-n-butylphthalate	13	J	6.1	MDL	18	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.4	J	6.1	MDL	18	PQL	ug/Kg	J	Z

Method Category:	VOA	
Method:	8015B	Matrix: SO

Sample ID: SL-072-SA7-SB-7.5-8.5 Collected: 9/22/2011 10:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	140	J	110	MDL	550	PQL	ug/Kg	J	Z

Sample ID: SL-141-SA7-SS-0.0-0.5 Collected: 9/21/2011 2:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	180	J	100	MDL	500	PQL	ug/Kg	J	Z

Sample ID: SL-143-SA7-SS-0.0-0.5 Collected: 9/21/2011 1:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	160	J	100	MDL	520	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	VOA	
Method:	8260B	Matrix: AQ

Sample ID: EB-SA7-SB-092211

Collected: 9/22/2011 1:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	3	J	2	MDL	5	PQL	ug/L	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE251

Method Blank Outlier Report

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWA26B261601	10/3/2011 4:01:00 PM	N-NITROSODIMETHYLAMINE	1.47 ng/L	EB-SA7-SB-092211

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-092211(RES)	N-NITROSODIMETHYLAMINE	3.19 ng/L	3.19U ng/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P26908EB220703	10/3/2011 7:03:00 AM	CALCIUM IRON PHOSPHORUS TIN	3.28 mg/Kg 3.68 mg/Kg 1.15 mg/Kg 1.39 mg/Kg	SL-011-SA7-SS-0.0-0.5 SL-012-SA7-SS-0.0-0.5 SL-013-SA7-SS-0.0-0.5 SL-020-SA7-SS-0.0-0.5 SL-023-SA7-SS-0.0-0.5 SL-039-SA7-SB-4.0-5.0 SL-055-SA7-SS-0.0-0.5 SL-072-SA7-SB-4.0-5.0 SL-072-SA7-SB-7.5-8.5 SL-074-SA7-SB-4.0-5.0 SL-075-SA7-SB-4.0-5.0 SL-075-SA7-SB-9.0-10.0 SL-077-SA7-SB-4.0-5.0 SL-088-SA7-SS-0.0-0.5 SL-101-SA7-SS-0.0-0.5 SL-141-SA7-SS-0.0-0.5 SL-142-SA7-SS-0.0-0.5 SL-143-SA7-SS-0.0-0.5 SL-151-SA7-SS-0.0-0.5
P27708BB220741	10/5/2011 7:41:00 AM	TITANIUM	0.0840 mg/Kg	SL-011-SA7-SS-0.0-0.5 SL-012-SA7-SS-0.0-0.5 SL-013-SA7-SS-0.0-0.5 SL-020-SA7-SS-0.0-0.5 SL-023-SA7-SS-0.0-0.5 SL-039-SA7-SB-4.0-5.0 SL-055-SA7-SS-0.0-0.5 SL-072-SA7-SB-4.0-5.0 SL-072-SA7-SB-7.5-8.5 SL-074-SA7-SB-4.0-5.0 SL-075-SA7-SB-4.0-5.0 SL-075-SA7-SB-9.0-10.0 SL-077-SA7-SB-4.0-5.0 SL-088-SA7-SS-0.0-0.5 SL-101-SA7-SS-0.0-0.5 SL-141-SA7-SS-0.0-0.5 SL-142-SA7-SS-0.0-0.5 SL-143-SA7-SS-0.0-0.5 SL-151-SA7-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-011-SA7-SS-0.0-0.5(REA2)	TIN	2.37 mg/Kg	2.37U mg/Kg
SL-012-SA7-SS-0.0-0.5(REA2)	TIN	2.46 mg/Kg	2.46U mg/Kg
SL-013-SA7-SS-0.0-0.5(REA2)	TIN	2.34 mg/Kg	2.34U mg/Kg
SL-020-SA7-SS-0.0-0.5(REA2)	TIN	2.60 mg/Kg	2.60U mg/Kg

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-023-SA7-SS-0.0-0.5(REA2)	TIN	2.57 mg/Kg	2.57U mg/Kg
SL-039-SA7-SB-4.0-5.0(REA2)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-055-SA7-SS-0.0-0.5(REA2)	TIN	2.45 mg/Kg	2.45U mg/Kg
SL-072-SA7-SB-4.0-5.0(REA2)	TIN	3.09 mg/Kg	3.09U mg/Kg
SL-072-SA7-SB-7.5-8.5(REA2)	TIN	2.74 mg/Kg	2.74U mg/Kg
SL-074-SA7-SB-4.0-5.0(REA2)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-075-SA7-SB-4.0-5.0(REA2)	TIN	2.61 mg/Kg	2.61U mg/Kg
SL-075-SA7-SB-9.0-10.0(REA2)	TIN	2.32 mg/Kg	2.32U mg/Kg
SL-077-SA7-SB-4.0-5.0(REA2)	TIN	2.77 mg/Kg	2.77U mg/Kg
SL-088-SA7-SS-0.0-0.5(REA2)	TIN	2.44 mg/Kg	2.44U mg/Kg
SL-101-SA7-SS-0.0-0.5(REA2)	TIN	2.74 mg/Kg	2.74U mg/Kg
SL-141-SA7-SS-0.0-0.5(REA2)	TIN	2.28 mg/Kg	2.28U mg/Kg
SL-142-SA7-SS-0.0-0.5(REA2)	TIN	2.21 mg/Kg	2.21U mg/Kg
SL-143-SA7-SS-0.0-0.5(REA2)	TIN	2.64 mg/Kg	2.64U mg/Kg
SL-151-SA7-SS-0.0-0.5(REA2)	TIN	2.73 mg/Kg	2.73U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P26926AB220448A	10/4/2011 4:48:00 AM	LEAD	0.0329 mg/Kg	SL-011-SA7-SS-0.0-0.5 SL-012-SA7-SS-0.0-0.5 SL-013-SA7-SS-0.0-0.5 SL-020-SA7-SS-0.0-0.5 SL-023-SA7-SS-0.0-0.5 SL-039-SA7-SB-4.0-5.0 SL-055-SA7-SS-0.0-0.5 SL-072-SA7-SB-4.0-5.0 SL-072-SA7-SB-7.5-8.5 SL-074-SA7-SB-4.0-5.0 SL-075-SA7-SB-4.0-5.0 SL-075-SA7-SB-9.0-10.0 SL-077-SA7-SB-4.0-5.0 SL-088-SA7-SS-0.0-0.5 SL-101-SA7-SS-0.0-0.5 SL-141-SA7-SS-0.0-0.5 SL-142-SA7-SS-0.0-0.5 SL-143-SA7-SS-0.0-0.5 SL-151-SA7-SS-0.0-0.5

Method: 7470A
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P26913GB221018	9/28/2011 10:18:00 AM	MERCURY	0.000051 mg/L	EB-SA7-SB-092211

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7470A
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-092211(RES)	MERCURY	0.000041 mg/L	0.000041U mg/L

Method: 8015B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P70706AB320238A	9/29/2011 2:38:00 AM	METHANOL	240 ug/L	EB-SA7-SB-092211

Method: 8270C SIM
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWI26B262107	10/1/2011 9:07:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE	0.13 ug/L	EB-SA7-SB-092211

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-092211(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.15 ug/L	1.0U ug/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-011-SA7-SS-0.0-0.5MS SL-011-SA7-SS-0.0-0.5MSD (SL-011-SA7-SS-0.0-0.5)	HEPTACHLOR EPOXIDE	285	-	13.00-157.00	67 (50.00)	HEPTACHLOR EPOXIDE	J (all detects)
SL-011-SA7-SS-0.0-0.5MSD (SL-011-SA7-SS-0.0-0.5)	4,4'-DDT	-	-45	10.00-176.00	-	4,4'-DDT	J(all detects) R(all non-detects)

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-012-SA7-SS-0.0-0.5MSD (SL-012-SA7-SS-0.0-0.5)	ETHANOL	-	-	48.00-130.00	21 (20.00)	ETHANOL	J(all detects)

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-012-SA7-SS-0.0-0.5MS SL-012-SA7-SS-0.0-0.5MSD (SL-012-SA7-SS-0.0-0.5)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40)	140 168 140 504	143 190 346 390	49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00	- - 23 (20.00) -	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40)	J(all detects) EFH (C21-C30) and (C30-C40), No Qual, >4x

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-013-SA7-SS-0.0-0.5MSD (SL-013-SA7-SS-0.0-0.5)	DICHLOROPROP MCPA	- -	- 315	33.00-178.00 10.00-213.00	56 (50.00) 182 (50.00)	DICHLOROPROP MCPA	J(all detects)
SL-013-SA7-SS-0.0-0.5MS SL-013-SA7-SS-0.0-0.5MSD (SL-013-SA7-SS-0.0-0.5)	2,4-DB	-134	-143	10.00-201.00	-	2,4-DB	J(all detects) R(all non-detects)

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-055-SA7-SS-0.0-0.5MS SL-055-SA7-SS-0.0-0.5MSD (SL-055-SA7-SS-0.0-0.5)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	13 31 44	13 32 44	59.00-109.00 63.00-107.00 63.00-107.00	- - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-011-SA7-SS-0.0-0.5MS SL-011-SA7-SS-0.0-0.5MSD (SL-011-SA7-SS-0.0-0.5 SL-012-SA7-SS-0.0-0.5 SL-013-SA7-SS-0.0-0.5 SL-020-SA7-SS-0.0-0.5 SL-023-SA7-SS-0.0-0.5 SL-039-SA7-SB-4.0-5.0 SL-055-SA7-SS-0.0-0.5 SL-072-SA7-SB-4.0-5.0 SL-072-SA7-SB-7.5-8.5 SL-074-SA7-SB-4.0-5.0 SL-075-SA7-SB-4.0-5.0 SL-075-SA7-SB-9.0-10.0 SL-077-SA7-SB-4.0-5.0 SL-088-SA7-SS-0.0-0.5 SL-101-SA7-SS-0.0-0.5 SL-141-SA7-SS-0.0-0.5 SL-142-SA7-SS-0.0-0.5 SL-143-SA7-SS-0.0-0.5 SL-151-SA7-SS-0.0-0.5)	ARSENIC COPPER NICKEL	13 28 -25	23 37 -16	75.00-125.00 75.00-125.00 75.00-125.00	- - -	ARSENIC COPPER NICKEL	As, J(all detects) R(all non-detects) As Post Spike = 129% Cu, Ni, J(all detects) UJ(all non-detects) Cu Post Spike = 93% Ni Post Spike = 82%
SL-011-SA7-SS-0.0-0.5MS SL-011-SA7-SS-0.0-0.5MSD (SL-011-SA7-SS-0.0-0.5 SL-012-SA7-SS-0.0-0.5 SL-013-SA7-SS-0.0-0.5 SL-020-SA7-SS-0.0-0.5 SL-023-SA7-SS-0.0-0.5 SL-039-SA7-SB-4.0-5.0 SL-055-SA7-SS-0.0-0.5 SL-072-SA7-SB-4.0-5.0 SL-072-SA7-SB-7.5-8.5 SL-074-SA7-SB-4.0-5.0 SL-075-SA7-SB-4.0-5.0 SL-075-SA7-SB-9.0-10.0 SL-077-SA7-SB-4.0-5.0 SL-088-SA7-SS-0.0-0.5 SL-101-SA7-SS-0.0-0.5 SL-141-SA7-SS-0.0-0.5 SL-142-SA7-SS-0.0-0.5 SL-143-SA7-SS-0.0-0.5 SL-151-SA7-SS-0.0-0.5)	ANTIMONY CHROMIUM LEAD VANADIUM ZINC	39 46 56 49 40	34 56 - 65 -	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ANTIMONY CHROMIUM LEAD VANADIUM ZINC	J(all detects) UJ(all non-detects) Zn, No Qual, >4x
SL-011-SA7-SS-0.0-0.5MS (SL-011-SA7-SS-0.0-0.5 SL-012-SA7-SS-0.0-0.5 SL-013-SA7-SS-0.0-0.5 SL-020-SA7-SS-0.0-0.5 SL-023-SA7-SS-0.0-0.5 SL-039-SA7-SB-4.0-5.0 SL-055-SA7-SS-0.0-0.5 SL-072-SA7-SB-4.0-5.0 SL-072-SA7-SB-7.5-8.5 SL-074-SA7-SB-4.0-5.0 SL-075-SA7-SB-4.0-5.0 SL-075-SA7-SB-9.0-10.0 SL-077-SA7-SB-4.0-5.0 SL-088-SA7-SS-0.0-0.5 SL-101-SA7-SS-0.0-0.5 SL-141-SA7-SS-0.0-0.5 SL-142-SA7-SS-0.0-0.5 SL-143-SA7-SS-0.0-0.5 SL-151-SA7-SS-0.0-0.5)	BARIUM	59	-	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-011-SA7-SS-0.0-0.5MS SL-011-SA7-SS-0.0-0.5MSD (SL-011-SA7-SS-0.0-0.5 SL-012-SA7-SS-0.0-0.5 SL-013-SA7-SS-0.0-0.5 SL-020-SA7-SS-0.0-0.5 SL-023-SA7-SS-0.0-0.5 SL-039-SA7-SB-4.0-5.0 SL-055-SA7-SS-0.0-0.5 SL-072-SA7-SB-4.0-5.0 SL-072-SA7-SB-7.5-8.5 SL-074-SA7-SB-4.0-5.0 SL-075-SA7-SB-4.0-5.0 SL-075-SA7-SB-9.0-10.0 SL-077-SA7-SB-4.0-5.0 SL-088-SA7-SS-0.0-0.5 SL-101-SA7-SS-0.0-0.5 SL-141-SA7-SS-0.0-0.5 SL-142-SA7-SS-0.0-0.5 SL-143-SA7-SS-0.0-0.5 SL-151-SA7-SS-0.0-0.5)	ALUMINUM CALCIUM IRON MAGNESIUM	1039 136 2103 195	1101 185 450 182	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM CALCIUM IRON MAGNESIUM	No Qual, >4x

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-011-SA7-SS-0.0-0.5MS (SL-011-SA7-SS-0.0-0.5 SL-012-SA7-SS-0.0-0.5 SL-013-SA7-SS-0.0-0.5 SL-020-SA7-SS-0.0-0.5 SL-023-SA7-SS-0.0-0.5 SL-055-SA7-SS-0.0-0.5 SL-088-SA7-SS-0.0-0.5 SL-101-SA7-SS-0.0-0.5 SL-141-SA7-SS-0.0-0.5 SL-151-SA7-SS-0.0-0.5)	NITRATE-NO3	125	-	80.00-120.00	-	NITRATE-NO3	J(all detects)
SL-011-SA7-SS-0.0-0.5MS (SL-011-SA7-SS-0.0-0.5 SL-012-SA7-SS-0.0-0.5 SL-013-SA7-SS-0.0-0.5 SL-020-SA7-SS-0.0-0.5 SL-023-SA7-SS-0.0-0.5 SL-055-SA7-SS-0.0-0.5 SL-088-SA7-SS-0.0-0.5 SL-101-SA7-SS-0.0-0.5 SL-141-SA7-SS-0.0-0.5 SL-151-SA7-SS-0.0-0.5)	FLUORIDE	79	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-011-SA7-SS-0.0-0.5MS SL-011-SA7-SS-0.0-0.5MSD (SL-011-SA7-SS-0.0-0.5)	BENZIDINE	15	0	35.00-141.00	200 (30.00)	BENZIDINE	J(all detects) R(all non-detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
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Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-011-SA7-SS-0.0-0.5MSD (SL-011-SA7-SS-0.0-0.5 SL-012-SA7-SS-0.0-0.5 SL-013-SA7-SS-0.0-0.5 SL-020-SA7-SS-0.0-0.5 SL-023-SA7-SS-0.0-0.5 SL-039-SA7-SB-4.0-5.0 SL-055-SA7-SS-0.0-0.5 SL-072-SA7-SB-4.0-5.0 SL-072-SA7-SB-7.5-8.5 SL-074-SA7-SB-4.0-5.0 SL-075-SA7-SB-4.0-5.0 SL-075-SA7-SB-9.0-10.0 SL-077-SA7-SB-4.0-5.0 SL-088-SA7-SS-0.0-0.5 SL-101-SA7-SS-0.0-0.5 SL-141-SA7-SS-0.0-0.5 SL-142-SA7-SS-0.0-0.5 SL-143-SA7-SS-0.0-0.5 SL-151-SA7-SS-0.0-0.5)	TITANIUM	-	176	75.00-125.00	-	TITANIUM	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-011-SA7-SS-0.0-0.5DUP (SL-011-SA7-SS-0.0-0.5 SL-012-SA7-SS-0.0-0.5 SL-013-SA7-SS-0.0-0.5 SL-020-SA7-SS-0.0-0.5 SL-023-SA7-SS-0.0-0.5 SL-039-SA7-SB-4.0-5.0 SL-055-SA7-SS-0.0-0.5 SL-072-SA7-SB-4.0-5.0 SL-072-SA7-SB-7.5-8.5 SL-074-SA7-SB-4.0-5.0 SL-075-SA7-SB-4.0-5.0 SL-075-SA7-SB-9.0-10.0 SL-077-SA7-SB-4.0-5.0 SL-088-SA7-SS-0.0-0.5 SL-101-SA7-SS-0.0-0.5 SL-141-SA7-SS-0.0-0.5 SL-142-SA7-SS-0.0-0.5 SL-143-SA7-SS-0.0-0.5 SL-151-SA7-SS-0.0-0.5)	Zirconium	44	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-011-SA7-SS-0.0-0.5DUP (SL-011-SA7-SS-0.0-0.5 SL-012-SA7-SS-0.0-0.5 SL-013-SA7-SS-0.0-0.5 SL-020-SA7-SS-0.0-0.5 SL-023-SA7-SS-0.0-0.5 SL-039-SA7-SB-4.0-5.0 SL-055-SA7-SS-0.0-0.5 SL-072-SA7-SB-4.0-5.0 SL-072-SA7-SB-7.5-8.5 SL-074-SA7-SB-4.0-5.0 SL-075-SA7-SB-4.0-5.0 SL-075-SA7-SB-9.0-10.0 SL-077-SA7-SB-4.0-5.0 SL-088-SA7-SS-0.0-0.5 SL-101-SA7-SS-0.0-0.5 SL-141-SA7-SS-0.0-0.5 SL-142-SA7-SS-0.0-0.5 SL-143-SA7-SS-0.0-0.5 SL-151-SA7-SS-0.0-0.5)	ANTIMONY ARSENIC CHROMIUM COBALT COPPER MOLYBDENUM NICKEL SELENIUM VANADIUM	200 38 38 30 77 0.6121 mg/Kg 108 74 22	20.00 20.00 20.00 20.00 20.00 0.1982 mg/Kg 20.00 20.00 20.00	J(all detects) UJ(all non-detects) Sb, Se, No Qual, OK by Difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-012-SA7-SS-0.0-0.5DUP (SL-011-SA7-SS-0.0-0.5 SL-012-SA7-SS-0.0-0.5 SL-013-SA7-SS-0.0-0.5 SL-020-SA7-SS-0.0-0.5 SL-023-SA7-SS-0.0-0.5 SL-039-SA7-SB-4.0-5.0 SL-055-SA7-SS-0.0-0.5 SL-072-SA7-SB-4.0-5.0 SL-072-SA7-SB-7.5-8.5 SL-074-SA7-SB-4.0-5.0 SL-075-SA7-SB-4.0-5.0 SL-075-SA7-SB-9.0-10.0 SL-077-SA7-SB-4.0-5.0 SL-088-SA7-SS-0.0-0.5 SL-101-SA7-SS-0.0-0.5 SL-141-SA7-SS-0.0-0.5 SL-142-SA7-SS-0.0-0.5 SL-143-SA7-SS-0.0-0.5 SL-151-SA7-SS-0.0-0.5)	HEXAVALENT CHROMIUM	200	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7WHLCSY262257 (EB-SA7-SB-092211)	NITROBENZENE	-	111	75.00-109.00	-	NITROBENZENE	J (all detects)
P7WHLCSY262257 (EB-SA7-SB-092211)	BENZOIC ACID	-	-	10.00-69.00	31 (30.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P26926AQ220450A (SL-011-SA7-SS-0.0-0.5 SL-012-SA7-SS-0.0-0.5 SL-013-SA7-SS-0.0-0.5 SL-020-SA7-SS-0.0-0.5 SL-023-SA7-SS-0.0-0.5 SL-039-SA7-SB-4.0-5.0 SL-055-SA7-SS-0.0-0.5 SL-072-SA7-SB-4.0-5.0 SL-072-SA7-SB-7.5-8.5 SL-074-SA7-SB-4.0-5.0 SL-075-SA7-SB-4.0-5.0 SL-075-SA7-SB-9.0-10.0 SL-077-SA7-SB-4.0-5.0 SL-088-SA7-SS-0.0-0.5 SL-101-SA7-SS-0.0-0.5 SL-141-SA7-SS-0.0-0.5 SL-142-SA7-SS-0.0-0.5 SL-143-SA7-SS-0.0-0.5 SL-151-SA7-SS-0.0-0.5)	ANTIMONY	65	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P26908EQ220707 (SL-011-SA7-SS-0.0-0.5 SL-012-SA7-SS-0.0-0.5 SL-013-SA7-SS-0.0-0.5 SL-020-SA7-SS-0.0-0.5 SL-023-SA7-SS-0.0-0.5 SL-039-SA7-SB-4.0-5.0 SL-055-SA7-SS-0.0-0.5 SL-072-SA7-SB-4.0-5.0 SL-072-SA7-SB-7.5-8.5 SL-074-SA7-SB-4.0-5.0 SL-075-SA7-SB-4.0-5.0 SL-075-SA7-SB-9.0-10.0 SL-077-SA7-SB-4.0-5.0 SL-088-SA7-SS-0.0-0.5 SL-101-SA7-SS-0.0-0.5 SL-141-SA7-SS-0.0-0.5 SL-142-SA7-SS-0.0-0.5 SL-143-SA7-SS-0.0-0.5 SL-151-SA7-SS-0.0-0.5)	ALUMINUM	138	-	80.00-120.00	-	ALUMINUM	No Qual, SRM within QC Limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P4LALCSQ260627 (SL-011-SA7-SS-0.0-0.5 SL-012-SA7-SS-0.0-0.5 SL-013-SA7-SS-0.0-0.5 SL-020-SA7-SS-0.0-0.5 SL-023-SA7-SS-0.0-0.5 SL-039-SA7-SB-4.0-5.0 SL-055-SA7-SS-0.0-0.5 SL-072-SA7-SB-4.0-5.0 SL-074-SA7-SB-4.0-5.0 SL-075-SA7-SB-4.0-5.0 SL-075-SA7-SB-9.0-10.0 SL-077-SA7-SB-4.0-5.0 SL-088-SA7-SS-0.0-0.5 SL-101-SA7-SS-0.0-0.5 SL-141-SA7-SS-0.0-0.5 SL-142-SA7-SS-0.0-0.5 SL-143-SA7-SS-0.0-0.5 SL-151-SA7-SS-0.0-0.5)	FLUORANTHENE	120	-	78.00-116.00	-	FLUORANTHENE	J(all detects)
P7LCLCSQ262217 (SL-072-SA7-SB-7.5-8.5)	4,6-DINITRO-2-METHYLPHENOL	43	-	46.00-120.00	-	4,6-DINITRO-2-METHYLPHEN	J(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA7-SB-092211	N-Nitrosodimethylamine-d6	320	50.00-150.00	All Target Analytes	J(all detects)

Method: 1625C
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-055-SA7-SS-0.0-0.5	N-Nitrosodimethylamine-d6	168	50.00-150.00	All Target Analytes	No Qual, Diluted Out

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-012-SA7-SS-0.0-0.5	n-Triacontane-d62	164	19.00-152.00	All Target Analytes	J(all detects)
SL-013-SA7-SS-0.0-0.5	n-Triacontane-d62	232	19.00-152.00	All Target Analytes	J(all detects)
SL-088-SA7-SS-0.0-0.5	n-Triacontane-d62	1396	19.00-152.00	All Target Analytes	J(all detects)
SL-151-SA7-SS-0.0-0.5	ACETONE	146	42.00-138.00	All Target Analytes	J(all detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-013-SA7-SS-0.0-0.5	DECACHLOROBIPHENYL	124	20.00-120.00	All Target Analytes	J(all detects)
SL-023-SA7-SS-0.0-0.5	DECACHLOROBIPHENYL	136	20.00-120.00	All Target Analytes	J(all detects)
SL-088-SA7-SS-0.0-0.5	DECACHLOROBIPHENYL	121	20.00-120.00	All Target Analytes	J(all detects)
SL-101-SA7-SS-0.0-0.5	DECACHLOROBIPHENYL	190	20.00-120.00	All Target Analytes	J(all detects)
SL-141-SA7-SS-0.0-0.5	DECACHLOROBIPHENYL	129	20.00-120.00	All Target Analytes	J(all detects)
SL-143-SA7-SS-0.0-0.5	DECACHLOROBIPHENYL	121	20.00-120.00	All Target Analytes	J(all detects)
SL-151-SA7-SS-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	J(all detects) R(all non-detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Surrogate Outlier Report

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: AQ

<i>Sample ID</i>	<i>Surrogate</i>	<i>Sample % Recovery</i>	<i>% Recovery Limits</i>	<i>Affected Compounds</i>	<i>Flag</i>
EB-SA7-SB-092211	Nitrobenzene-d5	177	40.00-130.00	No Affected Compounds	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-092211	BORON	J	0.0033	0.0500	PQL	mg/L	J (all detects)

Method: 6020
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-092211	LEAD	J	0.00042	0.0010	PQL	mg/L	J (all detects)

Method: 7470A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-092211	MERCURY	J	0.000041	0.00020	PQL	mg/L	J (all detects)

Method: 8260B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-092211	METHYLENE CHLORIDE	J	3	5	PQL	ug/L	J (all detects)

Method: 8270C SIM
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-092211	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.15	1.0	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.34	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.82	1.0	PQL	ug/L	

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA7-SS-0.0-0.5	BORON	J	3.42	5.00	PQL	mg/Kg	J (all detects)
	SODIUM	J	49.8	100	PQL	mg/Kg	
	TIN	J	2.37	10.0	PQL	mg/Kg	
	Zirconium	J	0.932	5.00	PQL	mg/Kg	
SL-012-SA7-SS-0.0-0.5	SODIUM	J	56.4	98.7	PQL	mg/Kg	J (all detects)
	TIN	J	2.46	9.87	PQL	mg/Kg	
	Zirconium	J	0.815	4.93	PQL	mg/Kg	
SL-013-SA7-SS-0.0-0.5	SODIUM	J	59.8	97.8	PQL	mg/Kg	J (all detects)
	TIN	J	2.34	9.78	PQL	mg/Kg	
	Zirconium	J	0.700	4.89	PQL	mg/Kg	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-020-SA7-SS-0.0-0.5	SODIUM	J	65.0	102	PQL	mg/Kg	J (all detects)
	TIN	J	2.60	10.2	PQL	mg/Kg	
	Zirconium	J	0.778	5.11	PQL	mg/Kg	
SL-023-SA7-SS-0.0-0.5	SODIUM	J	67.3	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.57	10.1	PQL	mg/Kg	
	Zirconium	J	0.995	5.04	PQL	mg/Kg	
SL-039-SA7-SB-4.0-5.0	SODIUM	J	100	109	PQL	mg/Kg	J (all detects)
	TIN	J	2.81	10.9	PQL	mg/Kg	
	Zirconium	J	1.51	5.45	PQL	mg/Kg	
SL-055-SA7-SS-0.0-0.5	SODIUM	J	79.7	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.45	10.4	PQL	mg/Kg	
	Zirconium	J	1.01	5.20	PQL	mg/Kg	
SL-072-SA7-SB-4.0-5.0	TIN	J	3.09	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.88	5.54	PQL	mg/Kg	
SL-072-SA7-SB-7.5-8.5	BORON	J	4.94	5.33	PQL	mg/Kg	J (all detects)
	SODIUM	J	86.1	107	PQL	mg/Kg	
	TIN	J	2.74	10.7	PQL	mg/Kg	
	Zirconium	J	1.60	5.33	PQL	mg/Kg	
SL-074-SA7-SB-4.0-5.0	SODIUM	J	64.4	99.7	PQL	mg/Kg	J (all detects)
	TIN	J	2.71	9.97	PQL	mg/Kg	
	Zirconium	J	1.43	4.99	PQL	mg/Kg	
SL-075-SA7-SB-4.0-5.0	SODIUM	J	88.5	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.61	10.4	PQL	mg/Kg	
	Zirconium	J	1.12	5.18	PQL	mg/Kg	
SL-075-SA7-SB-9.0-10.0	TIN	J	2.32	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.966	5.28	PQL	mg/Kg	
SL-077-SA7-SB-4.0-5.0	SODIUM	J	89.4	105	PQL	mg/Kg	J (all detects)
	TIN	J	2.77	10.5	PQL	mg/Kg	
SL-088-SA7-SS-0.0-0.5	SODIUM	J	64.1	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.44	10.1	PQL	mg/Kg	
	Zirconium	J	1.14	5.05	PQL	mg/Kg	
SL-101-SA7-SS-0.0-0.5	SODIUM	J	64.0	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.74	10.1	PQL	mg/Kg	
SL-141-SA7-SS-0.0-0.5	BORON	J	5.04	5.05	PQL	mg/Kg	J (all detects)
	SODIUM	J	54.9	101	PQL	mg/Kg	
	TIN	J	2.28	10.1	PQL	mg/Kg	
	Zirconium	J	0.910	5.05	PQL	mg/Kg	
SL-142-SA7-SS-0.0-0.5	SODIUM	J	69.9	99.3	PQL	mg/Kg	J (all detects)
	TIN	J	2.21	9.93	PQL	mg/Kg	
	Zirconium	J	1.04	4.97	PQL	mg/Kg	
SL-143-SA7-SS-0.0-0.5	SODIUM	J	75.9	102	PQL	mg/Kg	J (all detects)
	TIN	J	2.64	10.2	PQL	mg/Kg	
	Zirconium	J	0.834	5.11	PQL	mg/Kg	
SL-151-SA7-SS-0.0-0.5	SODIUM	J	72.7	102	PQL	mg/Kg	J (all detects)
	TIN	J	2.73	10.2	PQL	mg/Kg	
	Zirconium	J	1.32	5.12	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA7-SS-0.0-0.5	ANTIMONY CADMIUM SELENIUM	J	0.141	0.198	PQL	mg/Kg	J (all detects)
		J	0.0893	0.0991	PQL	mg/Kg	
		J	0.130	0.396	PQL	mg/Kg	
SL-012-SA7-SS-0.0-0.5	SELENIUM SILVER	J	0.0717	0.402	PQL	mg/Kg	J (all detects)
		J	0.0287	0.101	PQL	mg/Kg	
SL-013-SA7-SS-0.0-0.5	SELENIUM THALLIUM	J	0.137	0.403	PQL	mg/Kg	J (all detects)
		J	0.313	0.504	PQL	mg/Kg	
SL-020-SA7-SS-0.0-0.5	SELENIUM SILVER	J	0.152	0.397	PQL	mg/Kg	J (all detects)
		J	0.0274	0.0993	PQL	mg/Kg	
SL-023-SA7-SS-0.0-0.5	SELENIUM SILVER	J	0.100	0.388	PQL	mg/Kg	J (all detects)
		J	0.0276	0.0970	PQL	mg/Kg	
SL-039-SA7-SB-4.0-5.0	SELENIUM SILVER	J	0.192	0.445	PQL	mg/Kg	J (all detects)
		J	0.0380	0.111	PQL	mg/Kg	
SL-055-SA7-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.0789	0.206	PQL	mg/Kg	J (all detects)
		J	0.127	0.412	PQL	mg/Kg	
		J	0.0297	0.103	PQL	mg/Kg	
SL-072-SA7-SB-4.0-5.0	ANTIMONY SELENIUM SILVER	J	0.0909	0.219	PQL	mg/Kg	J (all detects)
		J	0.215	0.439	PQL	mg/Kg	
		J	0.0302	0.110	PQL	mg/Kg	
SL-072-SA7-SB-7.5-8.5	SELENIUM SILVER	J	0.143	0.431	PQL	mg/Kg	J (all detects)
		J	0.0183	0.108	PQL	mg/Kg	
SL-074-SA7-SB-4.0-5.0	SELENIUM SILVER	J	0.181	0.419	PQL	mg/Kg	J (all detects)
		J	0.0298	0.105	PQL	mg/Kg	
SL-075-SA7-SB-4.0-5.0	CADMIUM SELENIUM SILVER	J	0.0860	0.105	PQL	mg/Kg	J (all detects)
		J	0.292	0.418	PQL	mg/Kg	
		J	0.0285	0.105	PQL	mg/Kg	
SL-075-SA7-SB-9.0-10.0	SELENIUM SILVER	J	0.195	0.426	PQL	mg/Kg	J (all detects)
		J	0.0231	0.107	PQL	mg/Kg	
SL-077-SA7-SB-4.0-5.0	CADMIUM SELENIUM SILVER	J	0.0681	0.105	PQL	mg/Kg	J (all detects)
		J	0.0815	0.419	PQL	mg/Kg	
		J	0.0219	0.105	PQL	mg/Kg	
SL-088-SA7-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.108	0.194	PQL	mg/Kg	J (all detects)
		J	0.190	0.388	PQL	mg/Kg	
		J	0.0431	0.0971	PQL	mg/Kg	
SL-101-SA7-SS-0.0-0.5	ANTIMONY SELENIUM	J	0.119	0.201	PQL	mg/Kg	J (all detects)
		J	0.140	0.403	PQL	mg/Kg	
SL-141-SA7-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.0807	0.200	PQL	mg/Kg	J (all detects)
		J	0.133	0.400	PQL	mg/Kg	
		J	0.0270	0.0999	PQL	mg/Kg	
SL-142-SA7-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.0776	0.195	PQL	mg/Kg	J (all detects)
		J	0.104	0.390	PQL	mg/Kg	
		J	0.0273	0.0974	PQL	mg/Kg	
SL-143-SA7-SS-0.0-0.5	SELENIUM SILVER	J	0.113	0.401	PQL	mg/Kg	J (all detects)
		J	0.0397	0.100	PQL	mg/Kg	
SL-151-SA7-SS-0.0-0.5	ANTIMONY SELENIUM	J	0.104	0.199	PQL	mg/Kg	J (all detects)
		J	0.118	0.398	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.36	1.0	PQL	mg/Kg	J (all detects)
SL-039-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.64	1.2	PQL	mg/Kg	J (all detects)
SL-072-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.93	1.2	PQL	mg/Kg	J (all detects)
SL-072-SA7-SB-7.5-8.5	HEXAVALENT CHROMIUM	J	0.85	1.1	PQL	mg/Kg	J (all detects)
SL-074-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.25	1.1	PQL	mg/Kg	J (all detects)
SL-075-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.29	1.1	PQL	mg/Kg	J (all detects)
SL-075-SA7-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.26	1.1	PQL	mg/Kg	J (all detects)
SL-077-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.27	1.1	PQL	mg/Kg	J (all detects)
SL-101-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.23	1.0	PQL	mg/Kg	J (all detects)
SL-141-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.42	1.0	PQL	mg/Kg	J (all detects)
SL-151-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.60	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA7-SS-0.0-0.5	MERCURY	J	0.0145	0.0988	PQL	mg/Kg	J (all detects)
SL-013-SA7-SS-0.0-0.5	MERCURY	J	0.0096	0.0978	PQL	mg/Kg	J (all detects)
SL-020-SA7-SS-0.0-0.5	MERCURY	J	0.0113	0.0980	PQL	mg/Kg	J (all detects)
SL-023-SA7-SS-0.0-0.5	MERCURY	J	0.0513	0.0974	PQL	mg/Kg	J (all detects)
SL-039-SA7-SB-4.0-5.0	MERCURY	J	0.0165	0.106	PQL	mg/Kg	J (all detects)
SL-055-SA7-SS-0.0-0.5	MERCURY	J	0.0409	0.101	PQL	mg/Kg	J (all detects)
SL-072-SA7-SB-4.0-5.0	MERCURY	J	0.0139	0.104	PQL	mg/Kg	J (all detects)
SL-075-SA7-SB-4.0-5.0	MERCURY	J	0.0073	0.100	PQL	mg/Kg	J (all detects)
SL-075-SA7-SB-9.0-10.0	MERCURY	J	0.0137	0.107	PQL	mg/Kg	J (all detects)
SL-088-SA7-SS-0.0-0.5	MERCURY	J	0.0195	0.0977	PQL	mg/Kg	J (all detects)
SL-101-SA7-SS-0.0-0.5	MERCURY	J	0.0242	0.0962	PQL	mg/Kg	J (all detects)
SL-141-SA7-SS-0.0-0.5	MERCURY	J	0.0688	0.0988	PQL	mg/Kg	J (all detects)
SL-142-SA7-SS-0.0-0.5	MERCURY	J	0.0433	0.0989	PQL	mg/Kg	J (all detects)
SL-143-SA7-SS-0.0-0.5	MERCURY	J	0.0253	0.0999	PQL	mg/Kg	J (all detects)
SL-151-SA7-SS-0.0-0.5	MERCURY	J	0.0600	0.0995	PQL	mg/Kg	J (all detects)

Method: 8015B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-072-SA7-SB-7.5-8.5	METHANOL	J	140	550	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8015B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-141-SA7-SS-0.0-0.5	METHANOL	J	180	500	PQL	ug/Kg	J (all detects)
SL-143-SA7-SS-0.0-0.5	METHANOL	J	160	520	PQL	ug/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-013-SA7-SS-0.0-0.5	EFH (C15-C20)	J	2.7	6.1	PQL	mg/Kg	J (all detects)
SL-072-SA7-SB-4.0-5.0	EFH (C30-C40)	J	1.1	1.3	PQL	mg/Kg	J (all detects)
SL-074-SA7-SB-4.0-5.0	EFH (C21-C30)	J	0.83	1.3	PQL	mg/Kg	J (all detects)
SL-075-SA7-SB-9.0-10.0	EFH (C15-C20)	J	0.68	1.3	PQL	mg/Kg	J (all detects)
SL-142-SA7-SS-0.0-0.5	EFH (C15-C20)	J	12	24	PQL	mg/Kg	J (all detects)
SL-143-SA7-SS-0.0-0.5	EFH (C15-C20)	J	4.3	6.2	PQL	mg/Kg	J (all detects)
SL-151-SA7-SS-0.0-0.5	EFH (C15-C20)	J	9.2	25	PQL	mg/Kg	J (all detects)

Method: 8081A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA7-SS-0.0-0.5	gamma-BHC (Lindane)	J	0.14	0.17	PQL	ug/Kg	J (all detects)
SL-013-SA7-SS-0.0-0.5	HEPTACHLOR	J	0.081	0.17	PQL	ug/Kg	J (all detects)
SL-023-SA7-SS-0.0-0.5	ALDRIN ALPHA-BHC	J J	0.12 0.059	0.17 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-055-SA7-SS-0.0-0.5	DELTA-BHC	J	0.072	0.17	PQL	ug/Kg	J (all detects)
SL-088-SA7-SS-0.0-0.5	HEPTACHLOR	J	0.11	0.17	PQL	ug/Kg	J (all detects)
SL-101-SA7-SS-0.0-0.5	gamma-BHC (Lindane) HEPTACHLOR	J J	0.064 0.072	0.17 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-141-SA7-SS-0.0-0.5	ENDRIN KETONE	J	0.23	0.34	PQL	ug/Kg	J (all detects)
SL-142-SA7-SS-0.0-0.5	HEPTACHLOR	J	0.098	0.17	PQL	ug/Kg	J (all detects)
SL-143-SA7-SS-0.0-0.5	HEPTACHLOR HEPTACHLOR EPOXIDE	J J	0.095 0.12	0.17 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-151-SA7-SS-0.0-0.5	BETA-BHC HEPTACHLOR	J J	0.067 0.064	0.17 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA7-SS-0.0-0.5	Aroclor 5460	J	1.5	3.4	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA7-SS-0.0-0.5	Aroclor 5460	J	2.9	3.4	PQL	ug/Kg	J (all detects)
SL-013-SA7-SS-0.0-0.5	Aroclor 5460	J	3.2	3.4	PQL	ug/Kg	J (all detects)
SL-020-SA7-SS-0.0-0.5	AROCLOR 1254	J	1.5	1.7	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.9	3.4	PQL	ug/Kg	
SL-072-SA7-SB-4.0-5.0	AROCLOR 1254	J	0.46	1.9	PQL	ug/Kg	J (all detects)
SL-075-SA7-SB-4.0-5.0	AROCLOR 1254	J	0.67	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	2.2	3.5	PQL	ug/Kg	
SL-075-SA7-SB-9.0-10.0	AROCLOR 1242	J	0.74	1.9	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-020-SA7-SS-0.0-0.5	DICAMBA	J	0.43	1.2	PQL	ug/Kg	J (all detects)
SL-151-SA7-SS-0.0-0.5	DICAMBA	J	0.81	1.2	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-020-SA7-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	21	170	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	29	170	PQL	ug/Kg	
	PYRENE	J	26	170	PQL	ug/Kg	
SL-088-SA7-SS-0.0-0.5	BENZOIC ACID	J	210	500	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	84	340	PQL	ug/Kg	
SL-101-SA7-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	33	170	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	24	170	PQL	ug/Kg	
SL-142-SA7-SS-0.0-0.5	Di-n-octylphthalate	J	20	170	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA7-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.93	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.96	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.95	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	17	18	PQL	ug/Kg	
	Butylbenzylphthalate	J	11	18	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.95	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.88	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.2	1.7	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA7-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	0.89	1.7	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.62	1.7	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.73	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	14	18	PQL	ug/Kg	
	NAPHTHALENE	J	1.4	1.7	PQL	ug/Kg	
SL-013-SA7-SS-0.0-0.5	ANTHRACENE	J	0.79	1.7	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	1.0	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	11	18	PQL	ug/Kg	
	NAPHTHALENE	J	1.0	1.7	PQL	ug/Kg	
SL-020-SA7-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.3	1.7	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.6	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.83	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.4	18	PQL	ug/Kg	
	Butylbenzylphthalate	J	15	18	PQL	ug/Kg	
	PHENANTHRENE	J	1.3	1.7	PQL	ug/Kg	
SL-023-SA7-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	0.96	1.7	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	1.2	1.7	PQL	ug/Kg	
	ANTHRACENE	J	0.68	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.7	18	PQL	ug/Kg	
SL-055-SA7-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	1.3	1.7	PQL	ug/Kg	J (all detects)
	ACENAPHTHENE	J	0.82	1.7	PQL	ug/Kg	
	ANTHRACENE	J	1.1	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	14	18	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.77	1.7	PQL	ug/Kg	
SL-072-SA7-SB-4.0-5.0	2-METHYLNAPHTHALENE	J	0.82	1.8	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	0.97	1.8	PQL	ug/Kg	
SL-072-SA7-SB-7.5-8.5	2-METHYLNAPHTHALENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	ACENAPHTHENE	J	1.1	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	1.1	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.87	1.8	PQL	ug/Kg	
SL-074-SA7-SB-4.0-5.0	1-METHYLNAPHTHALENE	J	1.2	1.7	PQL	ug/Kg	J (all detects)
	FLUORENE	J	0.71	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.81	1.7	PQL	ug/Kg	
SL-075-SA7-SB-4.0-5.0	2-METHYLNAPHTHALENE	J	0.96	1.7	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	1.4	1.7	PQL	ug/Kg	
SL-075-SA7-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	20	PQL	ug/Kg	
	NAPHTHALENE	J	1.1	1.8	PQL	ug/Kg	
SL-077-SA7-SB-4.0-5.0	1-METHYLNAPHTHALENE	J	0.86	1.8	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.7	1.8	PQL	ug/Kg	
	ACENAPHTHENE	J	1.3	1.8	PQL	ug/Kg	
	FLUORENE	J	0.77	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.0	1.8	PQL	ug/Kg	
SL-088-SA7-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	1.2	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.2	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.75	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	6.3	18	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.95	1.7	PQL	ug/Kg	
SL-101-SA7-SS-0.0-0.5	Di-n-octylphthalate	J	8.2	18	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE251

Laboratory: LL

EDD Filename: DE251_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-141-SA7-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	0.76	1.7	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.4	1.7	PQL	ug/Kg	
	ACENAPHTHENE	J	0.77	1.7	PQL	ug/Kg	
	ACENAPHTHYLENE	J	1.3	1.7	PQL	ug/Kg	
	ANTHRACENE	J	0.51	1.7	PQL	ug/Kg	
SL-142-SA7-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	0.90	1.7	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	0.57	1.7	PQL	ug/Kg	
	ANTHRACENE	J	0.42	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.3	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.3	1.7	PQL	ug/Kg	
SL-143-SA7-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	0.91	1.7	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.53	1.7	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.1	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.72	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.4	1.7	PQL	ug/Kg	
	FLUORENE	J	1.5	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.70	1.7	PQL	ug/Kg	
SL-151-SA7-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	0.70	1.7	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.1	1.7	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.47	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	14	18	PQL	ug/Kg	
	Di-n-butylphthalate	J	13	18	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.4	18	PQL	ug/Kg	

LDC #: 26859U4
 SDG #: DE251
 Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET
 ADR

Date: 12/30/11
 Page: (of)
 Reviewer:
 2nd Reviewer:

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Cu, Fe, Mg, Ti, Zn > 4x
VII.	Duplicate Sample Analysis	SW	Sb, Se, Sr, CsX, Mo by difference
VIII.	Laboratory Control Samples (LCS)	N	
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV.	Field Blanks	SW	FB=20

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SL-011-SA7-SS-0.0-0.5	11	SL-142-SA7-SS-0.0-0.5	21	#1 MS (dup, trip)	31
2	SL-012-SA7-SS-0.0-0.5	12	SL-143-SA7-SS-0.0-0.5	22	MS	32
3	SL-013-SA7-SS-0.0-0.5	13	SL-039-SA7-SB-4.0-5.0	23	dup	33
4	SL-020-SA7-SS-0.0-0.5	14	SL-072-SA7-SB-4.0-5.0	24	#5 MS (Hg)	34
5	SL-055-SA7-SS-0.0-0.5	15	SL-072-SA7-SB-7.5-8.5	25	MS	35
6	SL-088-SA7-SS-0.0-0.5	16	SL-074-SA7-SB-4.0-5.0	26	MS	36
7	SL-101-SA7-SS-0.0-0.5	17	SL-075-SA7-SB-4.0-5.0	27		37
8	SL-151-SA7-SS-0.0-0.5	18	SL-075-SA7-SB-9.0-10.0	28		38
9	SL-023-SA7-SS-0.0-0.5	19	SL-077-SA7-SB-4.0-5.0	29		39
10	SL-141-SA7-SS-0.0-0.5	20	EB-SA7-SB-092211	30		40

Notes: _____

VALIDATION FINDINGS WORKSHEET
Field Blanks

METHOD: Trace Metals (EPA SW846 6010B/6020/7000)

Y/N **N/A** Were field blanks identified in this SDG?

Y/N **N/A** Were target analytes detected in the field blanks?

Blank units: ug/L **Associated sample units:** mg/Kg

Sampling date: 9/22/11 **Soil factor applied:** 100X, Hg:167X

Field blank type: (circle one) Field Blank / Rinsate / Other:

Associated Samples: All Soil **Reason Code:** F

Analyte	Blank ID	Sample Identification															
		20	2	3	4	6	7	12	13	14	17	18					
B	3.3																
Pb	0.42																
Hg	0.041	0.034235	0.014	0.0096	0.011	0.020	0.024	0.025	0.017	0.014	0.0073	0.014					

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
 Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".



QUALITY ASSURANCE SUMMARY
 FORM 5A (MS/MSD)
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE
 SDG No.: DE251
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6417426BKG Matrix Spike Lab Sample ID: 6417426MS Matrix Spike Duplicate Lab Sample ID: 6417426MSD
 & Solids for Sample: 98.0
 Batch ID(s): P26908E, P26926A, P27708B

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MS Spike Added	MSD Spike Added	Units	MS		MSD		Control Limit	
		Result	C	Result	C	Result	C				\$R	Q	\$R	Q	\$R	Q
Aluminum	121	7757.0128		9856.6569		9982.2459		202.0610	202.0610	MG/KG	1039	39N	1101	1	74X	20P
Antimony	75	0.1411	B	0.5998		0.5539		1.1888	1.2245	MG/KG	13N	13N	34N	8	75-125	20MS
Arsenic	137	4.0995		4.3630		4.5653		1.9814	2.0408	MG/KG	59	59	23N	5	75-125	20MS
Barium	9	64.1371		69.9822		74.5306		9.9069	10.2041	MG/KG	85	85	102	6	74X	20MS
Beryllium	111	0.3937		1.0676		1.1290		0.7926	0.8163	MG/KG	95	95	90	6	75-125	20MS
Boron	111	3.4224	B	195.2788		201.8984		202.0610	202.0610	MG/KG	97	97	98	3	84-115	20P
Cadmium	111	0.0893	B	1.0466		1.1273		0.9907	1.0204	MG/KG	136	136	102	7	75-125	20MS
Calcium	52	1726.0064		2277.2873		2472.7632		404.1220	404.1220	MG/KG	46N	46N	185	8	74X	20P
Chromium	59	13.6715		18.2168		19.3898		9.9069	10.2041	MG/KG	95	95	56N	6	75-125	20MS
Cobalt	59	3.9469		50.8421		53.6531		49.5344	51.0204	MG/KG	28N	28N	37	5	75-125	20MS
Copper	63	10.9491		13.7052		14.7673		9.9069	10.2041	MG/KG	2103	2103	97	7	75-125	20MS
Iron	208	12872.3880		14997.1691		13326.5367		101.0305	101.0305	MG/KG	56N	56N	450	12	74X	20P
Lead	107	9.7226		11.3969		12.4429		2.9721	3.0612	MG/KG	99	99	89	9	75-125	20MS
Lithium	203	17.1799		113.3724		117.4470		101.0305	101.0305	MG/KG	95	95	99	4	82-114	20P
Magnesium	203	2499.1236		2892.3197		2867.0782		202.0610	202.0610	MG/KG	195	195	182	1	74X	20P
Manganese	52	185.0800		240.4748		236.5791		50.5153	50.5153	MG/KG	110	110	102	2	75-125	20P
Molybdenum	98	0.8284		9.8435		10.5102		9.9069	10.2041	MG/KG	91	91	95	7	75-125	20MS
Nickel	60	16.3107		13.8538		14.6612		9.9069	10.2041	MG/KG	-25N	-25N	-16N	6	75-125	20MS
Phosphorus	305.9294	305.9294		429.1231		430.5223		101.0305	101.0305	MG/KG	122	122	123	0	75-125	20P
Potassium	2702.5130	2702.5130		3824.8151		3931.3083		1010.3051	1010.3051	MG/KG	111	111	122	3	75-125	20P
Selenium	78	0.1298	B	2.0765		2.1755		1.9814	2.0408	MG/KG	98	98	100	5	75-125	20MS
Silver	107	0.0141	U	10.0634		10.4959		9.9069	10.2041	MG/KG	102	102	103	4	75-125	20MS
Sodium	49.8189	49.8189	B	1002.1944		1026.9640		1010.3051	1010.3051	MG/KG	94	94	97	2	75-125	20P
Strontium	7.8031	7.8031		104.4029		108.0430		101.0305	101.0305	MG/KG	96	96	99	3	75-115	20P
Thallium	203	0.2225		0.5849		0.5994		0.3963	0.4082	MG/KG	91	91	92	2	75-125	20MS
Tin	2.3709	2.3709	B	359.5979		367.2045		404.1220	404.1220	MG/KG	88	88	90	2	80-110	20P
Titanium	991.0042	991.0042		1068.7196		1166.8207		98.1162	100.0400	MG/KG	79	79	176	9	74X	20P
Vanadium	51	23.0830		27.9770		29.6735		9.9069	10.2041	MG/KG	49N	49N	65N	6	75-125	20MS
Zinc	66	55.9738		59.9564		66.3878		9.9069	10.2041	MG/KG	40	40	102	10	74X	20MS
Zirconium	90	0.9324	B	95.0101		98.7210		101.0305	101.0305	MG/KG	93	93	97	4	75-125	20P

As = post spike = 12970, Cu = 9370, Ni = 8270

METHODS: ICP-MS, ICP-AES, MS
 P = ICP Atomic Emission Spectrometer CV = Cold Vapor
 MS = ICP Mass Spectrometry AF = Cold Vapor Atomic Fluorescence
 CONCENTRATION QUALIFIERS:
 U = Below MDL, B = Below LOQ
 FLAGS:
 N = Matrix Spike OOS, * = Duplicate OOS



QUALITY ASSURANCE SUMMARY

FORM 6

DUPLICATES

SDG No.: DE251

Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6417426BKG
 % Solids for Duplicate: 98.0
 Batch ID(s): P26908E, P26926A, P27708B
 Concentration Units: MG/KG

Duplicate Lab Sample ID: 6417426DUP
 % Solids for Sample: 98.0

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			7757.0128		7853.9077			1	P
Antimony	121		0.1411	B	0.0740	U		200	MS
Arsenic	75		4.0995		2.7771			38 *	MS
Barium	137		64.1371		59.7639			7	MS
Beryllium	9	0.1	0.3937		0.3547			10	MS
Boron			3.4224	B	3.7211	B		8	P
Cadmium	111		0.0893	B	0.0777	B		14	MS
Calcium			1726.0064		1815.5743			5	P
Chromium	52		13.6715		9.3517			38 *	MS
Cobalt	59		3.9469		2.9232			30 *	MS
Copper	63		10.9491		4.8699			77 *	MS
Iron			12872.3880		13629.1827			6	P
Lead	208		9.7226		8.8535			9	MS
Lithium			17.1799		16.9281			1	P
Magnesium			2499.1236		2508.4752			0	P
Manganese			185.0800		187.4218			1	P
Molybdenum	98	0.1	0.8284		0.2163			117 *	MS
Nickel	60		16.3107		4.8980			108 *	MS
Phosphorus			305.9294		333.8270			9	P
Potassium			2702.5130		2685.0019			1	P
Selenium	78		0.1298	B	0.0598	B		74	MS
Silver	107		0.0141	U	0.0142	U			MS
Sodium			49.8189	B	51.2303	B		3	P
Strontium			7.8031		8.4820			8	P
Thallium	203	0.1	0.2225		0.1951			13	MS
Tin			2.3709	B	2.3440	B		1	P
Titanium			991.0042		960.4319			3	P
Vanadium	51		23.0830		18.4634			22 *	MS
Zinc	66		55.9738		53.3613			5	MS
Zirconium			0.9324	B	1.4519	B		44	P

differs

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ). The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

Mo by Difference

Mo = 0.6121 (≤ 0.1982)

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<p>METHODS:</p> <p>P = ICP Atomic Emission Spectrometer</p> <p>MS = ICP Mass Spectrometry</p> <p>CV = Cold Vapor</p> <p>AF = Cold Vapor Atomic Fluorescence</p>	<p>CONCENTRATION QUALIFIERS:</p> <p>U= Below MDL</p> <p>B= Below LOQ</p> <p>FLAGS:</p> <p>* = Duplicate Out of Spec</p>
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SAMPLE DELIVERY GROUP

DE252

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Sep-2011	SL-140-SA7-SS-0.0-0.5	6418453	N	3050B	6010B	III
22-Sep-2011	SL-140-SA7-SS-0.0-0.5	6418453	N	3050B	6020	III
22-Sep-2011	SL-140-SA7-SS-0.0-0.5	6418453	N	3060A	7199	III
22-Sep-2011	SL-140-SA7-SS-0.0-0.5	6418453	N	3550B	8015B	III
22-Sep-2011	SL-140-SA7-SS-0.0-0.5	6418453	N	3550B	8015M	III
22-Sep-2011	SL-140-SA7-SS-0.0-0.5	6418453	N	3550B	8081A	III
22-Sep-2011	SL-140-SA7-SS-0.0-0.5	6418453	N	3550B	8082	III
22-Sep-2011	SL-140-SA7-SS-0.0-0.5	6418453	N	3550B	8151A	III
22-Sep-2011	SL-140-SA7-SS-0.0-0.5	6418453	N	3550B	8270C	III
22-Sep-2011	SL-140-SA7-SS-0.0-0.5	6418453	N	3550B	8270C SIM	III
22-Sep-2011	SL-140-SA7-SS-0.0-0.5	6418453	N	METHOD	300.0	III
22-Sep-2011	SL-140-SA7-SS-0.0-0.5	6418453	N	METHOD	314.0	III
22-Sep-2011	SL-140-SA7-SS-0.0-0.5	6418453	N	METHOD	7471A	III
22-Sep-2011	SL-140-SA7-SS-0.0-0.5	6418453	N	METHOD	8015B	III
22-Sep-2011	SL-140-SA7-SS-0.0-0.5	6418453	N	METHOD	8015M	III
22-Sep-2011	SL-140-SA7-SS-0.0-0.5	6418453	N	METHOD	9012B	III
22-Sep-2011	SL-139-SA7-SS-0.0-0.5	6418452	N	3050B	6010B	III
22-Sep-2011	SL-139-SA7-SS-0.0-0.5	6418452	N	3050B	6020	III
22-Sep-2011	SL-139-SA7-SS-0.0-0.5	6418452	N	3060A	7199	III
22-Sep-2011	SL-139-SA7-SS-0.0-0.5	6418452	N	3550B	8015B	III
22-Sep-2011	SL-139-SA7-SS-0.0-0.5	6418452	N	3550B	8015M	III
22-Sep-2011	SL-139-SA7-SS-0.0-0.5	6418452	N	3550B	8081A	III
22-Sep-2011	SL-139-SA7-SS-0.0-0.5	6418452	N	3550B	8082	III
22-Sep-2011	SL-139-SA7-SS-0.0-0.5	6418452	N	3550B	8151A	III
22-Sep-2011	SL-139-SA7-SS-0.0-0.5	6418452	N	3550B	8270C	III
22-Sep-2011	SL-139-SA7-SS-0.0-0.5	6418452	N	3550B	8270C SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Sep-2011	SL-139-SA7-SS-0.0-0.5	6418452	N	METHOD	300.0	III
22-Sep-2011	SL-139-SA7-SS-0.0-0.5	6418452	N	METHOD	314.0	III
22-Sep-2011	SL-139-SA7-SS-0.0-0.5	6418452	N	METHOD	7471A	III
22-Sep-2011	SL-139-SA7-SS-0.0-0.5	6418452	N	METHOD	8015B	III
22-Sep-2011	SL-139-SA7-SS-0.0-0.5	6418452	N	METHOD	8015M	III
22-Sep-2011	SL-139-SA7-SS-0.0-0.5	6418452	N	METHOD	9012B	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5	6418446	N	3050B	6010B	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5	6418446	N	3050B	6020	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5	6418446	N	3060A	7199	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5	6418446	N	3550B	8015B	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5	6418446	N	3550B	8015M	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5	6418446	N	3550B	8081A	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5	6418446	N	3550B	8082	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5	6418446	N	3550B	8151A	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5	6418446	N	3550B	8270C	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5	6418446	N	3550B	8270C SIM	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5	6418446	N	METHOD	300.0	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5	6418446	N	METHOD	314.0	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5	6418446	N	METHOD	7471A	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5	6418446	N	METHOD	8015B	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5	6418446	N	METHOD	8015M	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5	6418446	N	METHOD	9012B	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MS	6418447	MS	3050B	6010B	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MS	6418447	MS	3050B	6020	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MS	6418447	MS	3060A	7199	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MS	6418447	MS	3550B	8015B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MS	6418447	MS	3550B	8015M	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MS	6418447	MS	3550B	8081A	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MS	6418447	MS	3550B	8082	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MS	6418447	MS	3550B	8151A	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MS	6418447	MS	3550B	8270C	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MS	6418447	MS	3550B	8270C SIM	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MS	6418447	MS	METHOD	300.0	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MS	6418447	MS	METHOD	314.0	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MS	6418447	MS	METHOD	7471A	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MS	6418447	MS	METHOD	8015B	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MS	6418447	MS	METHOD	8015M	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MS	6418447	MS	METHOD	9012B	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MSD	6418448	MSD	3050B	6010B	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MSD	6418448	MSD	3050B	6020	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MSD	6418448	MSD	3550B	8015B	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MSD	6418448	MSD	3550B	8015M	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MSD	6418448	MSD	3550B	8081A	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MSD	6418448	MSD	3550B	8082	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MSD	6418448	MSD	3550B	8151A	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MSD	6418448	MSD	3550B	8270C	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MSD	6418448	MSD	3550B	8270C SIM	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MSD	6418448	MSD	METHOD	7471A	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MSD	6418448	MSD	METHOD	8015B	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MSD	6418448	MSD	METHOD	8015M	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5DUP	6418449	DUP	3050B	6010B	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5DUP	6418449	DUP	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Sep-2011	SL-015-SA7-SS-0.0-0.5DUP	6418449	DUP	3060A	7199	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5DUP	6418449	DUP	METHOD	300.0	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5DUP	6418449	DUP	METHOD	314.0	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5DUP	6418449	DUP	METHOD	7471A	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5DUP	6418449	DUP	METHOD	9012B	III
22-Sep-2011	DUP05-SA7-QC-092211	6418454	FD	3050B	6010B	III
22-Sep-2011	DUP05-SA7-QC-092211	6418454	FD	3050B	6020	III
22-Sep-2011	DUP05-SA7-QC-092211	6418454	FD	3060A	7199	III
22-Sep-2011	DUP05-SA7-QC-092211	6418454	FD	3550B	8015B	III
22-Sep-2011	DUP05-SA7-QC-092211	6418454	FD	3550B	8015M	III
22-Sep-2011	DUP05-SA7-QC-092211	6418454	FD	3550B	8081A	III
22-Sep-2011	DUP05-SA7-QC-092211	6418454	FD	3550B	8082	III
22-Sep-2011	DUP05-SA7-QC-092211	6418454	FD	3550B	8151A	III
22-Sep-2011	DUP05-SA7-QC-092211	6418454	FD	3550B	8270C	III
22-Sep-2011	DUP05-SA7-QC-092211	6418454	FD	3550B	8270C SIM	III
22-Sep-2011	DUP05-SA7-QC-092211	6418454	FD	METHOD	300.0	III
22-Sep-2011	DUP05-SA7-QC-092211	6418454	FD	METHOD	314.0	III
22-Sep-2011	DUP05-SA7-QC-092211	6418454	FD	METHOD	7471A	III
22-Sep-2011	DUP05-SA7-QC-092211	6418454	FD	METHOD	8015B	III
22-Sep-2011	DUP05-SA7-QC-092211	6418454	FD	METHOD	8015M	III
22-Sep-2011	DUP05-SA7-QC-092211	6418454	FD	METHOD	9012B	III
23-Sep-2011	SL-027-SA7-SS-0.0-0.5	6418457	N	3050B	6010B	III
23-Sep-2011	SL-027-SA7-SS-0.0-0.5	6418457	N	3050B	6020	III
23-Sep-2011	SL-027-SA7-SS-0.0-0.5	6418457	N	3060A	7199	III
23-Sep-2011	SL-027-SA7-SS-0.0-0.5	6418457	N	3550B	8081A	III
23-Sep-2011	SL-027-SA7-SS-0.0-0.5	6418457	N	3550B	8082	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Sep-2011	SL-027-SA7-SS-0.0-0.5	6418457	N	3550B	8151A	III
23-Sep-2011	SL-027-SA7-SS-0.0-0.5	6418457	N	3550B	8270C	III
23-Sep-2011	SL-027-SA7-SS-0.0-0.5	6418457	N	3550B	8270C SIM	III
23-Sep-2011	SL-027-SA7-SS-0.0-0.5	6418457	N	METHOD	300.0	III
23-Sep-2011	SL-027-SA7-SS-0.0-0.5	6418457	N	METHOD	314.0	III
23-Sep-2011	SL-027-SA7-SS-0.0-0.5	6418457	N	METHOD	7471A	III
23-Sep-2011	TB-092311	6418472	TB	5030B	8015M	III
23-Sep-2011	SL-025-SA7-SS-0.0-0.5	6418456	N	3050B	6010B	III
23-Sep-2011	SL-025-SA7-SS-0.0-0.5	6418456	N	3050B	6020	III
23-Sep-2011	SL-025-SA7-SS-0.0-0.5	6418456	N	3060A	7199	III
23-Sep-2011	SL-025-SA7-SS-0.0-0.5	6418456	N	3550B	8081A	III
23-Sep-2011	SL-025-SA7-SS-0.0-0.5	6418456	N	3550B	8082	III
23-Sep-2011	SL-025-SA7-SS-0.0-0.5	6418456	N	3550B	8151A	III
23-Sep-2011	SL-025-SA7-SS-0.0-0.5	6418456	N	3550B	8270C	III
23-Sep-2011	SL-025-SA7-SS-0.0-0.5	6418456	N	3550B	8270C SIM	III
23-Sep-2011	SL-025-SA7-SS-0.0-0.5	6418456	N	METHOD	300.0	III
23-Sep-2011	SL-025-SA7-SS-0.0-0.5	6418456	N	METHOD	314.0	III
23-Sep-2011	SL-025-SA7-SS-0.0-0.5	6418456	N	METHOD	7471A	III
23-Sep-2011	SL-062-SA7-SS-0.0-0.5	6418458	N	3050B	6010B	III
23-Sep-2011	SL-062-SA7-SS-0.0-0.5	6418458	N	3050B	6020	III
23-Sep-2011	SL-062-SA7-SS-0.0-0.5	6418458	N	3060A	7199	III
23-Sep-2011	SL-062-SA7-SS-0.0-0.5	6418458	N	3546	1625C	III
23-Sep-2011	SL-062-SA7-SS-0.0-0.5	6418458	N	3550B	8015B	III
23-Sep-2011	SL-062-SA7-SS-0.0-0.5	6418458	N	3550B	8015M	III
23-Sep-2011	SL-062-SA7-SS-0.0-0.5	6418458	N	3550B	8081A	III
23-Sep-2011	SL-062-SA7-SS-0.0-0.5	6418458	N	3550B	8082	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Sep-2011	SL-062-SA7-SS-0.0-0.5	6418458	N	3550B	8151A	III
23-Sep-2011	SL-062-SA7-SS-0.0-0.5	6418458	N	3550B	8270C	III
23-Sep-2011	SL-062-SA7-SS-0.0-0.5	6418458	N	3550B	8270C SIM	III
23-Sep-2011	SL-062-SA7-SS-0.0-0.5	6418458	N	8330	8330A	III
23-Sep-2011	SL-062-SA7-SS-0.0-0.5	6418458	N	METHOD	300.0	III
23-Sep-2011	SL-062-SA7-SS-0.0-0.5	6418458	N	METHOD	314.0	III
23-Sep-2011	SL-062-SA7-SS-0.0-0.5	6418458	N	METHOD	7471A	III
23-Sep-2011	SL-062-SA7-SS-0.0-0.5	6418458	N	METHOD	8015B	III
23-Sep-2011	SL-062-SA7-SS-0.0-0.5	6418458	N	METHOD	8015M	III
23-Sep-2011	SL-062-SA7-SS-0.0-0.5	6418458	N	METHOD	8315A	III
23-Sep-2011	SL-062-SA7-SS-0.0-0.5	6418458	N	METHOD	9012B	III
23-Sep-2011	SL-030-SA7-SB-4.0-5.0	6418467	N	3050B	6010B	III
23-Sep-2011	SL-030-SA7-SB-4.0-5.0	6418467	N	3050B	6020	III
23-Sep-2011	SL-030-SA7-SB-4.0-5.0	6418467	N	3060A	7199	III
23-Sep-2011	SL-030-SA7-SB-4.0-5.0	6418467	N	3550B	8082	III
23-Sep-2011	SL-030-SA7-SB-4.0-5.0	6418467	N	3550B	8270C	III
23-Sep-2011	SL-030-SA7-SB-4.0-5.0	6418467	N	3550B	8270C SIM	III
23-Sep-2011	SL-030-SA7-SB-4.0-5.0	6418467	N	METHOD	300.0	III
23-Sep-2011	SL-030-SA7-SB-4.0-5.0	6418467	N	METHOD	314.0	III
23-Sep-2011	SL-030-SA7-SB-4.0-5.0	6418467	N	METHOD	7471A	III
23-Sep-2011	SL-089-SA7-SS-0.0-0.5	6418463	N	3050B	6010B	III
23-Sep-2011	SL-089-SA7-SS-0.0-0.5	6418463	N	3050B	6020	III
23-Sep-2011	SL-089-SA7-SS-0.0-0.5	6418463	N	3060A	7199	III
23-Sep-2011	SL-089-SA7-SS-0.0-0.5	6418463	N	3546	1625C	III
23-Sep-2011	SL-089-SA7-SS-0.0-0.5	6418463	N	3550B	8015B	III
23-Sep-2011	SL-089-SA7-SS-0.0-0.5	6418463	N	3550B	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Sep-2011	SL-089-SA7-SS-0.0-0.5	6418463	N	3550B	8081A	III
23-Sep-2011	SL-089-SA7-SS-0.0-0.5	6418463	N	3550B	8082	III
23-Sep-2011	SL-089-SA7-SS-0.0-0.5	6418463	N	3550B	8151A	III
23-Sep-2011	SL-089-SA7-SS-0.0-0.5	6418463	N	3550B	8270C	III
23-Sep-2011	SL-089-SA7-SS-0.0-0.5	6418463	N	3550B	8270C SIM	III
23-Sep-2011	SL-089-SA7-SS-0.0-0.5	6418463	N	8330	8330A	III
23-Sep-2011	SL-089-SA7-SS-0.0-0.5	6418463	N	METHOD	300.0	III
23-Sep-2011	SL-089-SA7-SS-0.0-0.5	6418463	N	METHOD	314.0	III
23-Sep-2011	SL-089-SA7-SS-0.0-0.5	6418463	N	METHOD	7471A	III
23-Sep-2011	SL-089-SA7-SS-0.0-0.5	6418463	N	METHOD	8015B	III
23-Sep-2011	SL-089-SA7-SS-0.0-0.5	6418463	N	METHOD	8015M	III
23-Sep-2011	SL-089-SA7-SS-0.0-0.5	6418463	N	METHOD	8315A	III
23-Sep-2011	SL-089-SA7-SS-0.0-0.5	6418463	N	METHOD	9012B	III
23-Sep-2011	SL-089-SA7-SS-0.0-0.5DUP	P418463D272032B	DUP	METHOD	9012B	III
23-Sep-2011	SL-089-SA7-SS-0.0-0.5MS	P418463R272033B	MS	METHOD	9012B	III
23-Sep-2011	SL-073-SA7-SB-4.0-5.0	6418468	N	3050B	6010B	III
23-Sep-2011	SL-073-SA7-SB-4.0-5.0	6418468	N	3050B	6020	III
23-Sep-2011	SL-073-SA7-SB-4.0-5.0	6418468	N	3060A	7199	III
23-Sep-2011	SL-073-SA7-SB-4.0-5.0	6418468	N	3550B	8015B	III
23-Sep-2011	SL-073-SA7-SB-4.0-5.0	6418468	N	3550B	8015M	III
23-Sep-2011	SL-073-SA7-SB-4.0-5.0	6418468	N	3550B	8082	III
23-Sep-2011	SL-073-SA7-SB-4.0-5.0	6418468	N	3550B	8270C	III
23-Sep-2011	SL-073-SA7-SB-4.0-5.0	6418468	N	3550B	8270C SIM	III
23-Sep-2011	SL-073-SA7-SB-4.0-5.0	6418468	N	5035	8015M	III
23-Sep-2011	SL-073-SA7-SB-4.0-5.0	6418468	N	METHOD	300.0	III
23-Sep-2011	SL-073-SA7-SB-4.0-5.0	6418468	N	METHOD	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Sep-2011	SL-073-SA7-SB-4.0-5.0	6418468	N	METHOD	7471A	III
23-Sep-2011	SL-073-SA7-SB-4.0-5.0	6418468	N	METHOD	8015B	III
23-Sep-2011	SL-073-SA7-SB-4.0-5.0	6418468	N	METHOD	8015M	III
23-Sep-2011	SL-181-SA7-SS-0.0-0.5	6418466	N	3050B	6010B	III
23-Sep-2011	SL-181-SA7-SS-0.0-0.5	6418466	N	3050B	6020	III
23-Sep-2011	SL-181-SA7-SS-0.0-0.5	6418466	N	3060A	7199	III
23-Sep-2011	SL-181-SA7-SS-0.0-0.5	6418466	N	3546	1625C	III
23-Sep-2011	SL-181-SA7-SS-0.0-0.5	6418466	N	3550B	8015B	III
23-Sep-2011	SL-181-SA7-SS-0.0-0.5	6418466	N	3550B	8015M	III
23-Sep-2011	SL-181-SA7-SS-0.0-0.5	6418466	N	3550B	8081A	III
23-Sep-2011	SL-181-SA7-SS-0.0-0.5	6418466	N	3550B	8082	III
23-Sep-2011	SL-181-SA7-SS-0.0-0.5	6418466	N	3550B	8151A	III
23-Sep-2011	SL-181-SA7-SS-0.0-0.5	6418466	N	3550B	8270C	III
23-Sep-2011	SL-181-SA7-SS-0.0-0.5	6418466	N	3550B	8270C SIM	III
23-Sep-2011	SL-181-SA7-SS-0.0-0.5	6418466	N	8330	8330A	III
23-Sep-2011	SL-181-SA7-SS-0.0-0.5	6418466	N	METHOD	300.0	III
23-Sep-2011	SL-181-SA7-SS-0.0-0.5	6418466	N	METHOD	314.0	III
23-Sep-2011	SL-181-SA7-SS-0.0-0.5	6418466	N	METHOD	7471A	III
23-Sep-2011	SL-181-SA7-SS-0.0-0.5	6418466	N	METHOD	8015B	III
23-Sep-2011	SL-181-SA7-SS-0.0-0.5	6418466	N	METHOD	8015M	III
23-Sep-2011	SL-181-SA7-SS-0.0-0.5	6418466	N	METHOD	8315A	III
23-Sep-2011	SL-181-SA7-SS-0.0-0.5	6418466	N	METHOD	9012B	III
23-Sep-2011	SL-076-SA7-SB-2.5-3.5	6418469	N	3050B	6010B	III
23-Sep-2011	SL-076-SA7-SB-2.5-3.5	6418469	N	3050B	6020	III
23-Sep-2011	SL-076-SA7-SB-2.5-3.5	6418469	N	3060A	7199	III
23-Sep-2011	SL-076-SA7-SB-2.5-3.5	6418469	N	3550B	8015B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Sep-2011	SL-076-SA7-SB-2.5-3.5	6418469	N	3550B	8015M	III
23-Sep-2011	SL-076-SA7-SB-2.5-3.5	6418469	N	3550B	8082	III
23-Sep-2011	SL-076-SA7-SB-2.5-3.5	6418469	N	3550B	8270C	III
23-Sep-2011	SL-076-SA7-SB-2.5-3.5	6418469	N	3550B	8270C SIM	III
23-Sep-2011	SL-076-SA7-SB-2.5-3.5	6418469	N	5035	8015M	III
23-Sep-2011	SL-076-SA7-SB-2.5-3.5	6418469	N	METHOD	300.0	III
23-Sep-2011	SL-076-SA7-SB-2.5-3.5	6418469	N	METHOD	314.0	III
23-Sep-2011	SL-076-SA7-SB-2.5-3.5	6418469	N	METHOD	7471A	III
23-Sep-2011	SL-076-SA7-SB-2.5-3.5	6418469	N	METHOD	8015B	III
23-Sep-2011	SL-076-SA7-SB-2.5-3.5	6418469	N	METHOD	8015M	III
23-Sep-2011	SL-152-SA7-SS-0.0-0.5	6418464	N	3050B	6010B	III
23-Sep-2011	SL-152-SA7-SS-0.0-0.5	6418464	N	3050B	6020	III
23-Sep-2011	SL-152-SA7-SS-0.0-0.5	6418464	N	3060A	7199	III
23-Sep-2011	SL-152-SA7-SS-0.0-0.5	6418464	N	3546	1625C	III
23-Sep-2011	SL-152-SA7-SS-0.0-0.5	6418464	N	3550B	8015B	III
23-Sep-2011	SL-152-SA7-SS-0.0-0.5	6418464	N	3550B	8015M	III
23-Sep-2011	SL-152-SA7-SS-0.0-0.5	6418464	N	3550B	8081A	III
23-Sep-2011	SL-152-SA7-SS-0.0-0.5	6418464	N	3550B	8082	III
23-Sep-2011	SL-152-SA7-SS-0.0-0.5	6418464	N	3550B	8151A	III
23-Sep-2011	SL-152-SA7-SS-0.0-0.5	6418464	N	3550B	8270C	III
23-Sep-2011	SL-152-SA7-SS-0.0-0.5	6418464	N	3550B	8270C SIM	III
23-Sep-2011	SL-152-SA7-SS-0.0-0.5	6418464	N	8330	8330A	III
23-Sep-2011	SL-152-SA7-SS-0.0-0.5	6418464	N	METHOD	300.0	III
23-Sep-2011	SL-152-SA7-SS-0.0-0.5	6418464	N	METHOD	314.0	III
23-Sep-2011	SL-152-SA7-SS-0.0-0.5	6418464	N	METHOD	7471A	III
23-Sep-2011	SL-152-SA7-SS-0.0-0.5	6418464	N	METHOD	8015B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Sep-2011	SL-152-SA7-SS-0.0-0.5	6418464	N	METHOD	8015M	III
23-Sep-2011	SL-152-SA7-SS-0.0-0.5	6418464	N	METHOD	8315A	III
23-Sep-2011	SL-152-SA7-SS-0.0-0.5	6418464	N	METHOD	9012B	III
23-Sep-2011	SL-153-SA7-SS-0.0-0.5	6418465	N	3050B	6010B	III
23-Sep-2011	SL-153-SA7-SS-0.0-0.5	6418465	N	3050B	6020	III
23-Sep-2011	SL-153-SA7-SS-0.0-0.5	6418465	N	3060A	7199	III
23-Sep-2011	SL-153-SA7-SS-0.0-0.5	6418465	N	3546	1625C	III
23-Sep-2011	SL-153-SA7-SS-0.0-0.5	6418465	N	3550B	8015B	III
23-Sep-2011	SL-153-SA7-SS-0.0-0.5	6418465	N	3550B	8015M	III
23-Sep-2011	SL-153-SA7-SS-0.0-0.5	6418465	N	3550B	8081A	III
23-Sep-2011	SL-153-SA7-SS-0.0-0.5	6418465	N	3550B	8082	III
23-Sep-2011	SL-153-SA7-SS-0.0-0.5	6418465	N	3550B	8151A	III
23-Sep-2011	SL-153-SA7-SS-0.0-0.5	6418465	N	3550B	8270C	III
23-Sep-2011	SL-153-SA7-SS-0.0-0.5	6418465	N	3550B	8270C SIM	III
23-Sep-2011	SL-153-SA7-SS-0.0-0.5	6418465	N	8330	8330A	III
23-Sep-2011	SL-153-SA7-SS-0.0-0.5	6418465	N	METHOD	300.0	III
23-Sep-2011	SL-153-SA7-SS-0.0-0.5	6418465	N	METHOD	314.0	III
23-Sep-2011	SL-153-SA7-SS-0.0-0.5	6418465	N	METHOD	7471A	III
23-Sep-2011	SL-153-SA7-SS-0.0-0.5	6418465	N	METHOD	8015B	III
23-Sep-2011	SL-153-SA7-SS-0.0-0.5	6418465	N	METHOD	8015M	III
23-Sep-2011	SL-153-SA7-SS-0.0-0.5	6418465	N	METHOD	8315A	III
23-Sep-2011	SL-153-SA7-SS-0.0-0.5	6418465	N	METHOD	9012B	III
23-Sep-2011	SL-019-SA7-SS-0.0-0.5	6418455	N	3050B	6010B	III
23-Sep-2011	SL-019-SA7-SS-0.0-0.5	6418455	N	3050B	6020	III
23-Sep-2011	SL-019-SA7-SS-0.0-0.5	6418455	N	3060A	7199	III
23-Sep-2011	SL-019-SA7-SS-0.0-0.5	6418455	N	3550B	8015B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Sep-2011	SL-019-SA7-SS-0.0-0.5	6418455	N	3550B	8015M	III
23-Sep-2011	SL-019-SA7-SS-0.0-0.5	6418455	N	3550B	8081A	III
23-Sep-2011	SL-019-SA7-SS-0.0-0.5	6418455	N	3550B	8082	III
23-Sep-2011	SL-019-SA7-SS-0.0-0.5	6418455	N	3550B	8151A	III
23-Sep-2011	SL-019-SA7-SS-0.0-0.5	6418455	N	3550B	8270C	III
23-Sep-2011	SL-019-SA7-SS-0.0-0.5	6418455	N	3550B	8270C SIM	III
23-Sep-2011	SL-019-SA7-SS-0.0-0.5	6418455	N	METHOD	300.0	III
23-Sep-2011	SL-019-SA7-SS-0.0-0.5	6418455	N	METHOD	314.0	III
23-Sep-2011	SL-019-SA7-SS-0.0-0.5	6418455	N	METHOD	7471A	III
23-Sep-2011	SL-019-SA7-SS-0.0-0.5	6418455	N	METHOD	8015B	III
23-Sep-2011	SL-019-SA7-SS-0.0-0.5	6418455	N	METHOD	8015M	III
23-Sep-2011	SL-019-SA7-SS-0.0-0.5	6418455	N	METHOD	9012B	III
23-Sep-2011	SL-069-SA7-SS-0.0-0.5	6418462	N	3050B	6010B	III
23-Sep-2011	SL-069-SA7-SS-0.0-0.5	6418462	N	3050B	6020	III
23-Sep-2011	SL-069-SA7-SS-0.0-0.5	6418462	N	3060A	7199	III
23-Sep-2011	SL-069-SA7-SS-0.0-0.5	6418462	N	3550B	8015B	III
23-Sep-2011	SL-069-SA7-SS-0.0-0.5	6418462	N	3550B	8015M	III
23-Sep-2011	SL-069-SA7-SS-0.0-0.5	6418462	N	3550B	8081A	III
23-Sep-2011	SL-069-SA7-SS-0.0-0.5	6418462	N	3550B	8082	III
23-Sep-2011	SL-069-SA7-SS-0.0-0.5	6418462	N	3550B	8151A	III
23-Sep-2011	SL-069-SA7-SS-0.0-0.5	6418462	N	3550B	8270C	III
23-Sep-2011	SL-069-SA7-SS-0.0-0.5	6418462	N	3550B	8270C SIM	III
23-Sep-2011	SL-069-SA7-SS-0.0-0.5	6418462	N	METHOD	300.0	III
23-Sep-2011	SL-069-SA7-SS-0.0-0.5	6418462	N	METHOD	314.0	III
23-Sep-2011	SL-069-SA7-SS-0.0-0.5	6418462	N	METHOD	7471A	III
23-Sep-2011	SL-069-SA7-SS-0.0-0.5	6418462	N	METHOD	8015B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Sep-2011	SL-069-SA7-SS-0.0-0.5	6418462	N	METHOD	8015M	III
23-Sep-2011	SL-069-SA7-SS-0.0-0.5	6418462	N	METHOD	9012B	III
23-Sep-2011	SL-066-SA7-SS-0.0-0.5	6418459	N	3050B	6010B	III
23-Sep-2011	SL-066-SA7-SS-0.0-0.5	6418459	N	3050B	6020	III
23-Sep-2011	SL-066-SA7-SS-0.0-0.5	6418459	N	3060A	7199	III
23-Sep-2011	SL-066-SA7-SS-0.0-0.5	6418459	N	3550B	8015B	III
23-Sep-2011	SL-066-SA7-SS-0.0-0.5	6418459	N	3550B	8015M	III
23-Sep-2011	SL-066-SA7-SS-0.0-0.5	6418459	N	3550B	8081A	III
23-Sep-2011	SL-066-SA7-SS-0.0-0.5	6418459	N	3550B	8082	III
23-Sep-2011	SL-066-SA7-SS-0.0-0.5	6418459	N	3550B	8151A	III
23-Sep-2011	SL-066-SA7-SS-0.0-0.5	6418459	N	3550B	8270C	III
23-Sep-2011	SL-066-SA7-SS-0.0-0.5	6418459	N	3550B	8270C SIM	III
23-Sep-2011	SL-066-SA7-SS-0.0-0.5	6418459	N	METHOD	300.0	III
23-Sep-2011	SL-066-SA7-SS-0.0-0.5	6418459	N	METHOD	314.0	III
23-Sep-2011	SL-066-SA7-SS-0.0-0.5	6418459	N	METHOD	7471A	III
23-Sep-2011	SL-066-SA7-SS-0.0-0.5	6418459	N	METHOD	8015B	III
23-Sep-2011	SL-066-SA7-SS-0.0-0.5	6418459	N	METHOD	8015M	III
23-Sep-2011	SL-066-SA7-SS-0.0-0.5	6418459	N	METHOD	9012B	III
23-Sep-2011	SL-028-SA7-SB-4.0-5.0	6418470	N	3050B	6010B	III
23-Sep-2011	SL-028-SA7-SB-4.0-5.0	6418470	N	3050B	6020	III
23-Sep-2011	SL-028-SA7-SB-4.0-5.0	6418470	N	3060A	7199	III
23-Sep-2011	SL-028-SA7-SB-4.0-5.0	6418470	N	3550B	8082	III
23-Sep-2011	SL-028-SA7-SB-4.0-5.0	6418470	N	3550B	8270C	III
23-Sep-2011	SL-028-SA7-SB-4.0-5.0	6418470	N	3550B	8270C SIM	III
23-Sep-2011	SL-028-SA7-SB-4.0-5.0	6418470	N	METHOD	300.0	III
23-Sep-2011	SL-028-SA7-SB-4.0-5.0	6418470	N	METHOD	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Sep-2011	SL-028-SA7-SB-4.0-5.0	6418470	N	METHOD	7471A	III
23-Sep-2011	SL-068-SA7-SS-0.0-0.5	6418461	N	3050B	6010B	III
23-Sep-2011	SL-068-SA7-SS-0.0-0.5	6418461	N	3050B	6020	III
23-Sep-2011	SL-068-SA7-SS-0.0-0.5	6418461	N	3060A	7199	III
23-Sep-2011	SL-068-SA7-SS-0.0-0.5	6418461	N	3550B	8015B	III
23-Sep-2011	SL-068-SA7-SS-0.0-0.5	6418461	N	3550B	8015M	III
23-Sep-2011	SL-068-SA7-SS-0.0-0.5	6418461	N	3550B	8081A	III
23-Sep-2011	SL-068-SA7-SS-0.0-0.5	6418461	N	3550B	8082	III
23-Sep-2011	SL-068-SA7-SS-0.0-0.5	6418461	N	3550B	8151A	III
23-Sep-2011	SL-068-SA7-SS-0.0-0.5	6418461	N	3550B	8270C	III
23-Sep-2011	SL-068-SA7-SS-0.0-0.5	6418461	N	3550B	8270C SIM	III
23-Sep-2011	SL-068-SA7-SS-0.0-0.5	6418461	N	METHOD	300.0	III
23-Sep-2011	SL-068-SA7-SS-0.0-0.5	6418461	N	METHOD	314.0	III
23-Sep-2011	SL-068-SA7-SS-0.0-0.5	6418461	N	METHOD	7471A	III
23-Sep-2011	SL-068-SA7-SS-0.0-0.5	6418461	N	METHOD	8015B	III
23-Sep-2011	SL-068-SA7-SS-0.0-0.5	6418461	N	METHOD	8015M	III
23-Sep-2011	SL-068-SA7-SS-0.0-0.5	6418461	N	METHOD	9012B	III
23-Sep-2011	SL-068-SA7-SS-0.0-0.5DUP	P418461D271048B	DUP	METHOD	300.0	III
23-Sep-2011	SL-068-SA7-SS-0.0-0.5DUP	P418461D271735B	DUP	METHOD	314.0	III
23-Sep-2011	SL-068-SA7-SS-0.0-0.5MS	P418461R271103B	MS	METHOD	300.0	III
23-Sep-2011	SL-068-SA7-SS-0.0-0.5MS	P418461R271821B	MS	METHOD	314.0	III
23-Sep-2011	SL-067-SA7-SS-0.0-0.5	6418460	N	3050B	6010B	III
23-Sep-2011	SL-067-SA7-SS-0.0-0.5	6418460	N	3050B	6020	III
23-Sep-2011	SL-067-SA7-SS-0.0-0.5	6418460	N	3060A	7199	III
23-Sep-2011	SL-067-SA7-SS-0.0-0.5	6418460	N	3550B	8015B	III
23-Sep-2011	SL-067-SA7-SS-0.0-0.5	6418460	N	3550B	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Sep-2011	SL-067-SA7-SS-0.0-0.5	6418460	N	3550B	8081A	III
23-Sep-2011	SL-067-SA7-SS-0.0-0.5	6418460	N	3550B	8082	III
23-Sep-2011	SL-067-SA7-SS-0.0-0.5	6418460	N	3550B	8151A	III
23-Sep-2011	SL-067-SA7-SS-0.0-0.5	6418460	N	3550B	8270C	III
23-Sep-2011	SL-067-SA7-SS-0.0-0.5	6418460	N	3550B	8270C SIM	III
23-Sep-2011	SL-067-SA7-SS-0.0-0.5	6418460	N	METHOD	300.0	III
23-Sep-2011	SL-067-SA7-SS-0.0-0.5	6418460	N	METHOD	314.0	III
23-Sep-2011	SL-067-SA7-SS-0.0-0.5	6418460	N	METHOD	7471A	III
23-Sep-2011	SL-067-SA7-SS-0.0-0.5	6418460	N	METHOD	8015B	III
23-Sep-2011	SL-067-SA7-SS-0.0-0.5	6418460	N	METHOD	8015M	III
23-Sep-2011	SL-067-SA7-SS-0.0-0.5	6418460	N	METHOD	9012B	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM
Method: 300.0 **Matrix:** SO

Sample ID: DUP05-SA7-QC-092211 Collected: 9/22/2011 3:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.0		0.79	MDL	0.99	PQL	mg/Kg	J	Q

Sample ID: SL-015-SA7-SS-0.0-0.5 Collected: 9/22/2011 3:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.0		0.80	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-019-SA7-SS-0.0-0.5 Collected: 9/23/2011 12:08:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.82	U	0.82	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-025-SA7-SS-0.0-0.5 Collected: 9/23/2011 8:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.83	U	0.83	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-027-SA7-SS-0.0-0.5 Collected: 9/23/2011 7:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.7		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-062-SA7-SS-0.0-0.5 Collected: 9/23/2011 8:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.83	U	0.83	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-066-SA7-SS-0.0-0.5 Collected: 9/23/2011 2:12:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.80	U	0.80	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-067-SA7-SS-0.0-0.5 Collected: 9/23/2011 2:59:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.85	U	0.85	MDL	1.1	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/16/2012 12:12:40 PM

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Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-139-SA7-SS-0.0-0.5 Collected: 9/22/2011 2:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.81	U	0.81	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-140-SA7-SS-0.0-0.5 Collected: 9/22/2011 1:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.80	U	0.80	MDL	1.0	PQL	mg/Kg	UJ	Q

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: DUP05-SA7-QC-092211 Collected: 9/22/2011 3:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2700		11.2	MDL	49.6	PQL	mg/Kg	J	Q
SODIUM	96.1	J	5.90	MDL	99.1	PQL	mg/Kg	J	Z
TIN	2.99	J	0.317	MDL	9.91	PQL	mg/Kg	U	B
Zirconium	3.01	J	0.456	MDL	4.96	PQL	mg/Kg	J	Z

Sample ID: SL-015-SA7-SS-0.0-0.5 Collected: 9/22/2011 3:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2460		11.4	MDL	50.7	PQL	mg/Kg	J	Q
SODIUM	88.2	J	6.03	MDL	101	PQL	mg/Kg	J	Z
TIN	2.90	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	2.73	J	0.466	MDL	5.07	PQL	mg/Kg	J	Z

Sample ID: SL-019-SA7-SS-0.0-0.5 Collected: 9/23/2011 12:08:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4350		11.3	MDL	50.0	PQL	mg/Kg	J	Q
SODIUM	66.4	J	5.95	MDL	100	PQL	mg/Kg	J	Z
TIN	2.87	J	0.320	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	4.19	J	0.460	MDL	5.00	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-025-SA7-SS-0.0-0.5 **Collected:** 9/23/2011 8:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3730		11.4	MDL	50.3	PQL	mg/Kg	J	Q
SODIUM	85.1	J	5.99	MDL	101	PQL	mg/Kg	J	Z
TIN	2.91	J	0.322	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	3.10	J	0.463	MDL	5.03	PQL	mg/Kg	J	Z

Sample ID: SL-027-SA7-SS-0.0-0.5 **Collected:** 9/23/2011 7:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3860		11.2	MDL	49.4	PQL	mg/Kg	J	Q
SODIUM	74.2	J	5.88	MDL	98.8	PQL	mg/Kg	J	Z
TIN	3.07	J	0.316	MDL	9.88	PQL	mg/Kg	U	B

Sample ID: SL-028-SA7-SB-4.0-5.0 **Collected:** 9/23/2011 2:18:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2410		12.0	MDL	53.2	PQL	mg/Kg	J	Q
SODIUM	96.4	J	6.33	MDL	106	PQL	mg/Kg	J	Z
TIN	3.06	J	0.340	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	3.48	J	0.489	MDL	5.32	PQL	mg/Kg	J	Z

Sample ID: SL-030-SA7-SB-4.0-5.0 **Collected:** 9/23/2011 9:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3350		11.8	MDL	52.4	PQL	mg/Kg	J	Q
SODIUM	70.5	J	6.23	MDL	105	PQL	mg/Kg	J	Z
TIN	2.83	J	0.335	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.71	J	0.482	MDL	5.24	PQL	mg/Kg	J	Z

Sample ID: SL-062-SA7-SS-0.0-0.5 **Collected:** 9/23/2011 8:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3530		11.3	MDL	50.1	PQL	mg/Kg	J	Q
SODIUM	69.3	J	5.96	MDL	100	PQL	mg/Kg	J	Z
TIN	3.10	J	0.321	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	2.49	J	0.461	MDL	5.01	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-066-SA7-SS-0.0-0.5		Collected: 9/23/2011 2:12:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3890		11.2	MDL	49.5	PQL	mg/Kg	J	Q
SODIUM	69.4	J	5.89	MDL	99.0	PQL	mg/Kg	J	Z
TIN	2.88	J	0.317	MDL	9.90	PQL	mg/Kg	U	B
Zirconium	3.07	J	0.456	MDL	4.95	PQL	mg/Kg	J	Z

Sample ID: SL-067-SA7-SS-0.0-0.5		Collected: 9/23/2011 2:59:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4010		12.0	MDL	53.2	PQL	mg/Kg	J	Q
TIN	3.11	J	0.340	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	3.17	J	0.489	MDL	5.32	PQL	mg/Kg	J	Z

Sample ID: SL-068-SA7-SS-0.0-0.5		Collected: 9/23/2011 2:32:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3770		11.4	MDL	50.6	PQL	mg/Kg	J	Q
SODIUM	85.4	J	6.02	MDL	101	PQL	mg/Kg	J	Z
TIN	3.02	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	3.17	J	0.465	MDL	5.06	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA7-SS-0.0-0.5		Collected: 9/23/2011 12:31:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3400		11.0	MDL	48.7	PQL	mg/Kg	J	Q
SODIUM	74.2	J	5.79	MDL	97.3	PQL	mg/Kg	J	Z
TIN	2.80	J	0.311	MDL	9.73	PQL	mg/Kg	U	B
Zirconium	2.86	J	0.448	MDL	4.87	PQL	mg/Kg	J	Z

Sample ID: SL-073-SA7-SB-4.0-5.0		Collected: 9/23/2011 10:00:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3050		11.7	MDL	51.7	PQL	mg/Kg	J	Q
SODIUM	68.9	J	6.15	MDL	103	PQL	mg/Kg	J	Z
TIN	2.85	J	0.331	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.18	J	0.475	MDL	5.17	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-076-SA7-SB-2.5-3.5	Collected: 9/23/2011 11:00:00	Analysis Type: REA	Dilution: 5						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	25.6	J	1.89	MDL	26.2	PQL	mg/Kg	J	Z

Sample ID: SL-076-SA7-SB-2.5-3.5	Collected: 9/23/2011 11:00:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2790		11.9	MDL	52.4	PQL	mg/Kg	J	Q
SODIUM	72.8	J	6.24	MDL	105	PQL	mg/Kg	J	Z
TIN	3.19	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	3.86	J	0.482	MDL	5.24	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA7-SS-0.0-0.5	Collected: 9/23/2011 9:58:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2770		11.8	MDL	52.2	PQL	mg/Kg	J	Q
TIN	2.59	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.87	J	0.480	MDL	5.22	PQL	mg/Kg	J	Z

Sample ID: SL-139-SA7-SS-0.0-0.5	Collected: 9/22/2011 2:40:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3980		11.3	MDL	50.2	PQL	mg/Kg	J	Q
SODIUM	74.9	J	5.97	MDL	100	PQL	mg/Kg	J	Z
TIN	3.02	J	0.321	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	3.30	J	0.461	MDL	5.02	PQL	mg/Kg	J	Z

Sample ID: SL-140-SA7-SS-0.0-0.5	Collected: 9/22/2011 1:45:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3710		11.2	MDL	49.8	PQL	mg/Kg	J	Q
SODIUM	66.8	J	5.92	MDL	99.5	PQL	mg/Kg	J	Z
TIN	2.85	J	0.319	MDL	9.95	PQL	mg/Kg	U	B
Zirconium	2.85	J	0.458	MDL	4.98	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-152-SA7-SS-0.0-0.5 Collected: 9/23/2011 11:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3280		11.5	MDL	50.9	PQL	mg/Kg	J	Q
TIN	3.05	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.99	J	0.468	MDL	5.09	PQL	mg/Kg	J	Z

Sample ID: SL-153-SA7-SS-0.0-0.5 Collected: 9/23/2011 11:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2510		11.0	MDL	48.9	PQL	mg/Kg	J	Q
TIN	2.58	J	0.313	MDL	9.78	PQL	mg/Kg	U	B
Zirconium	2.32	J	0.450	MDL	4.89	PQL	mg/Kg	J	Z

Sample ID: SL-181-SA7-SS-0.0-0.5 Collected: 9/23/2011 10:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3830		11.4	MDL	50.2	PQL	mg/Kg	J	Q
TIN	2.74	J	0.321	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	3.05	J	0.462	MDL	5.02	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: DUP05-SA7-QC-092211 Collected: 9/22/2011 3:10:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.172	J	0.0575	MDL	0.397	PQL	mg/Kg	J	Z, Q

Sample ID: DUP05-SA7-QC-092211 Collected: 9/22/2011 3:10:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.529		0.0496	MDL	0.0991	PQL	mg/Kg	J	Q

Sample ID: DUP05-SA7-QC-092211 Collected: 9/22/2011 3:10:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.106	J	0.0734	MDL	0.198	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: DUP05-SA7-QC-092211 Collected: 9/22/2011 3:10:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	4.97		0.0793	MDL	0.397	PQL	mg/Kg	J	Q
BERYLLIUM	0.590		0.0159	MDL	0.0991	PQL	mg/Kg	J	Q
CADMIUM	0.191		0.0436	MDL	0.0991	PQL	mg/Kg	J	Q
CHROMIUM	19.6		0.119	MDL	0.397	PQL	mg/Kg	J	Q, A
COBALT	6.15		0.0198	MDL	0.0991	PQL	mg/Kg	J	Q, E
COPPER	8.30		0.0793	MDL	0.397	PQL	mg/Kg	J	Q
LEAD	8.16		0.0101	MDL	0.198	PQL	mg/Kg	J	Q
NICKEL	11.3		0.0991	MDL	0.397	PQL	mg/Kg	J	Q
SILVER	0.0407	J	0.0141	MDL	0.0991	PQL	mg/Kg	J	Z, Q, FD
THALLIUM	0.281		0.0297	MDL	0.0991	PQL	mg/Kg	J	Q
VANADIUM	38.5		0.0218	MDL	0.0991	PQL	mg/Kg	J	Q, E
ZINC	60.2		0.555	MDL	2.97	PQL	mg/Kg	J	E

Sample ID: SL-015-SA7-SS-0.0-0.5 Collected: 9/22/2011 3:05:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.169	J	0.0576	MDL	0.397	PQL	mg/Kg	J	Z, Q

Sample ID: SL-015-SA7-SS-0.0-0.5 Collected: 9/22/2011 3:05:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.540		0.0497	MDL	0.0993	PQL	mg/Kg	J	Q

Sample ID: SL-015-SA7-SS-0.0-0.5 Collected: 9/22/2011 3:05:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.146	J	0.0735	MDL	0.199	PQL	mg/Kg	J	Z, Q
ARSENIC	4.72		0.0795	MDL	0.397	PQL	mg/Kg	J	Q
BERYLLIUM	0.644		0.0159	MDL	0.0993	PQL	mg/Kg	J	Q
CADMIUM	0.233		0.0437	MDL	0.0993	PQL	mg/Kg	J	Q
CHROMIUM	21.5		0.119	MDL	0.397	PQL	mg/Kg	J	Q, A
COBALT	5.90		0.0199	MDL	0.0993	PQL	mg/Kg	J	Q, E
COPPER	8.45		0.0795	MDL	0.397	PQL	mg/Kg	J	Q
LEAD	9.31		0.0101	MDL	0.199	PQL	mg/Kg	J	Q
NICKEL	11.6		0.0993	MDL	0.397	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6020 **Matrix:** SO

Sample ID: SL-015-SA7-SS-0.0-0.5 Collected: 9/22/2011 3:05:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0743	J	0.0141	MDL	0.0993	PQL	mg/Kg	J	Z, Q, FD
THALLIUM	0.270		0.0298	MDL	0.0993	PQL	mg/Kg	J	Q
VANADIUM	39.2		0.0219	MDL	0.0993	PQL	mg/Kg	J	Q, E
ZINC	59.8		0.556	MDL	2.98	PQL	mg/Kg	J	E

Sample ID: SL-019-SA7-SS-0.0-0.5 Collected: 9/23/2011 12:08:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.212	J	0.0569	MDL	0.392	PQL	mg/Kg	J	Z, Q

Sample ID: SL-019-SA7-SS-0.0-0.5 Collected: 9/23/2011 12:08:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.798		0.0490	MDL	0.0981	PQL	mg/Kg	J	Q

Sample ID: SL-019-SA7-SS-0.0-0.5 Collected: 9/23/2011 12:08:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.159	J	0.0726	MDL	0.196	PQL	mg/Kg	J	Z, Q
ARSENIC	7.57		0.0785	MDL	0.392	PQL	mg/Kg	J	Q
BERYLLIUM	0.768		0.0157	MDL	0.0981	PQL	mg/Kg	J	Q
CADMIUM	0.228		0.0431	MDL	0.0981	PQL	mg/Kg	J	Q
CHROMIUM	25.9		0.118	MDL	0.392	PQL	mg/Kg	J	Q, A
COBALT	8.78		0.0196	MDL	0.0981	PQL	mg/Kg	J	Q, E
COPPER	13.6		0.0785	MDL	0.392	PQL	mg/Kg	J	Q
LEAD	13.1		0.0100	MDL	0.196	PQL	mg/Kg	J	Q
NICKEL	20.3		0.0981	MDL	0.392	PQL	mg/Kg	J	Q
SILVER	0.0543	J	0.0139	MDL	0.0981	PQL	mg/Kg	J	Z, Q
THALLIUM	0.365		0.0294	MDL	0.0981	PQL	mg/Kg	J	Q
VANADIUM	56.2		0.0216	MDL	0.0981	PQL	mg/Kg	J	Q, E
ZINC	82.6		0.549	MDL	2.94	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-025-SA7-SS-0.0-0.5 Collected: 9/23/2011 8:10:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.138	J	0.0589	MDL	0.407	PQL	mg/Kg	J	Z, Q

Sample ID: SL-025-SA7-SS-0.0-0.5 Collected: 9/23/2011 8:10:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.565		0.0508	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-025-SA7-SS-0.0-0.5 Collected: 9/23/2011 8:10:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0972	J	0.0752	MDL	0.203	PQL	mg/Kg	J	Z, Q
ARSENIC	5.26		0.0813	MDL	0.407	PQL	mg/Kg	J	Q
BERYLLIUM	0.550		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CADMIUM	0.286		0.0447	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	19.4		0.122	MDL	0.407	PQL	mg/Kg	J	Q, A
COBALT	6.37		0.0203	MDL	0.102	PQL	mg/Kg	J	Q, E
COPPER	12.0		0.0813	MDL	0.407	PQL	mg/Kg	J	Q
LEAD	24.1		0.0104	MDL	0.203	PQL	mg/Kg	J	Q
NICKEL	12.7		0.102	MDL	0.407	PQL	mg/Kg	J	Q
SILVER	0.0455	J	0.0144	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.263		0.0305	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	37.8		0.0224	MDL	0.102	PQL	mg/Kg	J	Q, E
ZINC	102		0.569	MDL	3.05	PQL	mg/Kg	J	E

Sample ID: SL-027-SA7-SS-0.0-0.5 Collected: 9/23/2011 7:45:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.138	J	0.0579	MDL	0.399	PQL	mg/Kg	J	Z, Q

Sample ID: SL-027-SA7-SS-0.0-0.5 Collected: 9/23/2011 7:45:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.911		0.0499	MDL	0.0998	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-027-SA7-SS-0.0-0.5 Collected: 9/23/2011 7:45:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.142	J	0.0738	MDL	0.200	PQL	mg/Kg	J	Z, Q
ARSENIC	4.79		0.0798	MDL	0.399	PQL	mg/Kg	J	Q
BERYLLIUM	0.628		0.0160	MDL	0.0998	PQL	mg/Kg	J	Q
CADMIUM	0.246		0.0439	MDL	0.0998	PQL	mg/Kg	J	Q
CHROMIUM	18.9		0.120	MDL	0.399	PQL	mg/Kg	J	Q, A
COBALT	6.60		0.0200	MDL	0.0998	PQL	mg/Kg	J	Q, E
COPPER	10.3		0.0798	MDL	0.399	PQL	mg/Kg	J	Q
LEAD	19.0		0.0102	MDL	0.200	PQL	mg/Kg	J	Q
NICKEL	12.8		0.0998	MDL	0.399	PQL	mg/Kg	J	Q
SILVER	0.0562	J	0.0142	MDL	0.0998	PQL	mg/Kg	J	Z, Q
THALLIUM	0.299		0.0299	MDL	0.0998	PQL	mg/Kg	J	Q
VANADIUM	38.6		0.0220	MDL	0.0998	PQL	mg/Kg	J	Q, E
ZINC	85.5		0.559	MDL	2.99	PQL	mg/Kg	J	E

Sample ID: SL-028-SA7-SB-4.0-5.0 Collected: 9/23/2011 2:18:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0983	J	0.0629	MDL	0.434	PQL	mg/Kg	J	Z, Q

Sample ID: SL-028-SA7-SB-4.0-5.0 Collected: 9/23/2011 2:18:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.760		0.0542	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-028-SA7-SB-4.0-5.0 Collected: 9/23/2011 2:18:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.109	J	0.0802	MDL	0.217	PQL	mg/Kg	J	Z, Q
ARSENIC	5.62		0.0868	MDL	0.434	PQL	mg/Kg	J	Q
BERYLLIUM	0.745		0.0174	MDL	0.108	PQL	mg/Kg	J	Q
CADMIUM	0.0786	J	0.0477	MDL	0.108	PQL	mg/Kg	J	Z, Q
CHROMIUM	23.6		0.130	MDL	0.434	PQL	mg/Kg	J	Q, A
COBALT	7.44		0.0217	MDL	0.108	PQL	mg/Kg	J	Q, E
COPPER	9.88		0.0868	MDL	0.434	PQL	mg/Kg	J	Q
LEAD	6.19		0.0111	MDL	0.217	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-028-SA7-SB-4.0-5.0 Collected: 9/23/2011 2:18:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	14.6		0.108	MDL	0.434	PQL	mg/Kg	J	Q
SILVER	0.0478	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.340		0.0325	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	48.4		0.0239	MDL	0.108	PQL	mg/Kg	J	Q, E
ZINC	60.5		0.607	MDL	3.25	PQL	mg/Kg	J	E

Sample ID: SL-030-SA7-SB-4.0-5.0 Collected: 9/23/2011 9:00:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.186	J	0.0608	MDL	0.419	PQL	mg/Kg	J	Z, Q

Sample ID: SL-030-SA7-SB-4.0-5.0 Collected: 9/23/2011 9:00:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.769		0.0524	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-030-SA7-SB-4.0-5.0 Collected: 9/23/2011 9:00:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0880	J	0.0775	MDL	0.210	PQL	mg/Kg	J	Z, Q
ARSENIC	5.92		0.0838	MDL	0.419	PQL	mg/Kg	J	Q
BERYLLIUM	0.726		0.0168	MDL	0.105	PQL	mg/Kg	J	Q
CADMIUM	0.200		0.0461	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	20.3		0.126	MDL	0.419	PQL	mg/Kg	J	Q, A
COBALT	7.49		0.0210	MDL	0.105	PQL	mg/Kg	J	Q, E
COPPER	10.3		0.0838	MDL	0.419	PQL	mg/Kg	J	Q
LEAD	6.43		0.0107	MDL	0.210	PQL	mg/Kg	J	Q
NICKEL	13.8		0.105	MDL	0.419	PQL	mg/Kg	J	Q
SILVER	0.0350	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.372		0.0314	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	40.8		0.0230	MDL	0.105	PQL	mg/Kg	J	Q, E
ZINC	77.4		0.587	MDL	3.14	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-062-SA7-SS-0.0-0.5			Collected: 9/23/2011 8:35:00			Analysis Type: REA		Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.112	J	0.0587	MDL	0.405	PQL	mg/Kg	J	Z, Q

Sample ID: SL-062-SA7-SS-0.0-0.5			Collected: 9/23/2011 8:35:00			Analysis Type: REA2		Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.984		0.0506	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-062-SA7-SS-0.0-0.5			Collected: 9/23/2011 8:35:00			Analysis Type: RES		Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.314		0.0749	MDL	0.202	PQL	mg/Kg	J	Q
ARSENIC	5.56		0.0810	MDL	0.405	PQL	mg/Kg	J	Q
BERYLLIUM	0.484		0.0162	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.388		0.0445	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	19.6		0.121	MDL	0.405	PQL	mg/Kg	J	Q, A
COBALT	7.96		0.0202	MDL	0.101	PQL	mg/Kg	J	Q, E
COPPER	21.1		0.0810	MDL	0.405	PQL	mg/Kg	J	Q
LEAD	19.6		0.0103	MDL	0.202	PQL	mg/Kg	J	Q
NICKEL	15.6		0.101	MDL	0.405	PQL	mg/Kg	J	Q
SILVER	0.0674	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.256		0.0304	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	40.1		0.0223	MDL	0.101	PQL	mg/Kg	J	Q, E
ZINC	109		0.567	MDL	3.04	PQL	mg/Kg	J	E

Sample ID: SL-066-SA7-SS-0.0-0.5			Collected: 9/23/2011 2:12:00			Analysis Type: REA		Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.220	J	0.0586	MDL	0.404	PQL	mg/Kg	J	Z, Q

Sample ID: SL-066-SA7-SS-0.0-0.5			Collected: 9/23/2011 2:12:00			Analysis Type: REA2		Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.741		0.0505	MDL	0.101	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-066-SA7-SS-0.0-0.5	Collected: 9/23/2011 2:12:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.188	J	0.0747	MDL	0.202	PQL	mg/Kg	J	Z, Q
ARSENIC	5.53		0.0808	MDL	0.404	PQL	mg/Kg	J	Q
BERYLLIUM	0.651		0.0162	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.234		0.0444	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	25.8		0.121	MDL	0.404	PQL	mg/Kg	J	Q, A
COBALT	8.15		0.0202	MDL	0.101	PQL	mg/Kg	J	Q, E
COPPER	12.6		0.0808	MDL	0.404	PQL	mg/Kg	J	Q
LEAD	19.0		0.0103	MDL	0.202	PQL	mg/Kg	J	Q
NICKEL	17.1		0.101	MDL	0.404	PQL	mg/Kg	J	Q
SILVER	0.0505	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.323		0.0303	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	52.8		0.0222	MDL	0.101	PQL	mg/Kg	J	Q, E
ZINC	81.3		0.566	MDL	3.03	PQL	mg/Kg	J	E

Sample ID: SL-067-SA7-SS-0.0-0.5	Collected: 9/23/2011 2:59:00	Analysis Type: REA	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.150	J	0.0617	MDL	0.426	PQL	mg/Kg	J	Z, Q

Sample ID: SL-067-SA7-SS-0.0-0.5	Collected: 9/23/2011 2:59:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.689		0.0532	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-067-SA7-SS-0.0-0.5	Collected: 9/23/2011 2:59:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.211	J	0.0787	MDL	0.213	PQL	mg/Kg	J	Z, Q
ARSENIC	4.77		0.0851	MDL	0.426	PQL	mg/Kg	J	Q
BERYLLIUM	0.493		0.0170	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.288		0.0468	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	20.2		0.128	MDL	0.426	PQL	mg/Kg	J	Q, A
COBALT	6.60		0.0213	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	13.8		0.0851	MDL	0.426	PQL	mg/Kg	J	Q
LEAD	18.7		0.0109	MDL	0.213	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-067-SA7-SS-0.0-0.5	Collected: 9/23/2011 2:59:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	15.1		0.106	MDL	0.426	PQL	mg/Kg	J	Q
SILVER	0.0546	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.263		0.0319	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	40.4		0.0234	MDL	0.106	PQL	mg/Kg	J	Q, E
ZINC	88.2		0.596	MDL	3.19	PQL	mg/Kg	J	E

Sample ID: SL-068-SA7-SS-0.0-0.5	Collected: 9/23/2011 2:32:00	Analysis Type: REA	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.142	J	0.0581	MDL	0.400	PQL	mg/Kg	J	Z, Q

Sample ID: SL-068-SA7-SS-0.0-0.5	Collected: 9/23/2011 2:32:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.679		0.0501	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-068-SA7-SS-0.0-0.5	Collected: 9/23/2011 2:32:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.151	J	0.0741	MDL	0.200	PQL	mg/Kg	J	Z, Q
ARSENIC	5.61		0.0801	MDL	0.400	PQL	mg/Kg	J	Q
BERYLLIUM	0.553		0.0160	MDL	0.100	PQL	mg/Kg	J	Q
CADMIUM	0.219		0.0440	MDL	0.100	PQL	mg/Kg	J	Q
CHROMIUM	23.1		0.120	MDL	0.400	PQL	mg/Kg	J	Q, A
COBALT	7.65		0.0200	MDL	0.100	PQL	mg/Kg	J	Q, E
COPPER	11.8		0.0801	MDL	0.400	PQL	mg/Kg	J	Q
LEAD	17.3		0.0102	MDL	0.200	PQL	mg/Kg	J	Q
NICKEL	15.4		0.100	MDL	0.400	PQL	mg/Kg	J	Q
SILVER	0.0464	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q
THALLIUM	0.300		0.0300	MDL	0.100	PQL	mg/Kg	J	Q
VANADIUM	51.5		0.0220	MDL	0.100	PQL	mg/Kg	J	Q, E
ZINC	79.3		0.561	MDL	3.00	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-069-SA7-SS-0.0-0.5 Collected: 9/23/2011 12:31:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.205	J	0.0570	MDL	0.393	PQL	mg/Kg	J	Z, Q

Sample ID: SL-069-SA7-SS-0.0-0.5 Collected: 9/23/2011 12:31:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.689		0.0491	MDL	0.0983	PQL	mg/Kg	J	Q

Sample ID: SL-069-SA7-SS-0.0-0.5 Collected: 9/23/2011 12:31:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.189	J	0.0727	MDL	0.197	PQL	mg/Kg	J	Z, Q
ARSENIC	7.10		0.0786	MDL	0.393	PQL	mg/Kg	J	Q
BERYLLIUM	0.647		0.0157	MDL	0.0983	PQL	mg/Kg	J	Q
CADMIUM	0.182		0.0432	MDL	0.0983	PQL	mg/Kg	J	Q
CHROMIUM	25.2		0.118	MDL	0.393	PQL	mg/Kg	J	Q, A
COBALT	9.10		0.0197	MDL	0.0983	PQL	mg/Kg	J	Q, E
COPPER	13.9		0.0786	MDL	0.393	PQL	mg/Kg	J	Q
LEAD	10.6		0.0100	MDL	0.197	PQL	mg/Kg	J	Q
NICKEL	17.3		0.0983	MDL	0.393	PQL	mg/Kg	J	Q
SILVER	0.0410	J	0.0140	MDL	0.0983	PQL	mg/Kg	J	Z, Q
THALLIUM	0.349		0.0295	MDL	0.0983	PQL	mg/Kg	J	Q
VANADIUM	53.5		0.0216	MDL	0.0983	PQL	mg/Kg	J	Q, E
ZINC	84.3		0.550	MDL	2.95	PQL	mg/Kg	J	E

Sample ID: SL-073-SA7-SB-4.0-5.0 Collected: 9/23/2011 10:00:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.131	J	0.0599	MDL	0.413	PQL	mg/Kg	J	Z, Q

Sample ID: SL-073-SA7-SB-4.0-5.0 Collected: 9/23/2011 10:00:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.543		0.0517	MDL	0.103	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-073-SA7-SB-4.0-5.0 Collected: 9/23/2011 10:00:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0765	U	0.0765	MDL	0.207	PQL	mg/Kg	UJ	Q
ARSENIC	4.77		0.0827	MDL	0.413	PQL	mg/Kg	J	Q
BERYLLIUM	0.570		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CADMIUM	0.142		0.0455	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	16.6		0.124	MDL	0.413	PQL	mg/Kg	J	Q, A
COBALT	5.98		0.0207	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	7.89		0.0827	MDL	0.413	PQL	mg/Kg	J	Q
LEAD	6.40		0.0105	MDL	0.207	PQL	mg/Kg	J	Q
NICKEL	11.0		0.103	MDL	0.413	PQL	mg/Kg	J	Q
SILVER	0.0217	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z, Q
THALLIUM	0.294		0.0310	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	34.4		0.0227	MDL	0.103	PQL	mg/Kg	J	Q, E
ZINC	66.1		0.579	MDL	3.10	PQL	mg/Kg	J	E

Sample ID: SL-076-SA7-SB-2.5-3.5 Collected: 9/23/2011 11:00:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.198	J	0.0608	MDL	0.420	PQL	mg/Kg	J	Z, Q

Sample ID: SL-076-SA7-SB-2.5-3.5 Collected: 9/23/2011 11:00:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.876		0.0524	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-076-SA7-SB-2.5-3.5 Collected: 9/23/2011 11:00:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.243		0.0776	MDL	0.210	PQL	mg/Kg	J	Q
ARSENIC	12.1		0.0839	MDL	0.420	PQL	mg/Kg	J	Q
BERYLLIUM	0.591		0.0168	MDL	0.105	PQL	mg/Kg	J	Q
CADMIUM	0.204		0.0461	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	19.9		0.126	MDL	0.420	PQL	mg/Kg	J	Q, A
COBALT	14.0		0.0210	MDL	0.105	PQL	mg/Kg	J	Q, E
COPPER	16.1		0.0839	MDL	0.420	PQL	mg/Kg	J	Q
LEAD	11.4		0.0107	MDL	0.210	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-076-SA7-SB-2.5-3.5 Collected: 9/23/2011 11:00:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	14.5		0.105	MDL	0.420	PQL	mg/Kg	J	Q
SILVER	0.0529	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.307		0.0315	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	37.9		0.0231	MDL	0.105	PQL	mg/Kg	J	Q, E
ZINC	102		0.587	MDL	3.15	PQL	mg/Kg	J	E

Sample ID: SL-089-SA7-SS-0.0-0.5 Collected: 9/23/2011 9:58:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.166	J	0.0605	MDL	0.417	PQL	mg/Kg	J	Z, Q

Sample ID: SL-089-SA7-SS-0.0-0.5 Collected: 9/23/2011 9:58:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.552		0.0522	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-089-SA7-SS-0.0-0.5 Collected: 9/23/2011 9:58:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.266		0.0772	MDL	0.209	PQL	mg/Kg	J	Q
ARSENIC	7.84		0.0835	MDL	0.417	PQL	mg/Kg	J	Q
BERYLLIUM	0.421		0.0167	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.196		0.0459	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	18.2		0.125	MDL	0.417	PQL	mg/Kg	J	Q, A
COBALT	6.47		0.0209	MDL	0.104	PQL	mg/Kg	J	Q, E
COPPER	10.5		0.0835	MDL	0.417	PQL	mg/Kg	J	Q
LEAD	11.3		0.0106	MDL	0.209	PQL	mg/Kg	J	Q
NICKEL	12.0		0.104	MDL	0.417	PQL	mg/Kg	J	Q
SILVER	0.0331	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.268		0.0313	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	38.2		0.0230	MDL	0.104	PQL	mg/Kg	J	Q, E
ZINC	60.0		0.584	MDL	3.13	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-139-SA7-SS-0.0-0.5	Collected: 9/22/2011 2:40:00	Analysis Type: REA	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.165	J	0.0571	MDL	0.393	PQL	mg/Kg	J	Z, Q

Sample ID: SL-139-SA7-SS-0.0-0.5	Collected: 9/22/2011 2:40:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.595		0.0492	MDL	0.0984	PQL	mg/Kg	J	Q

Sample ID: SL-139-SA7-SS-0.0-0.5	Collected: 9/22/2011 2:40:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.130	J	0.0728	MDL	0.197	PQL	mg/Kg	J	Z, Q
ARSENIC	5.42		0.0787	MDL	0.393	PQL	mg/Kg	J	Q
BERYLLIUM	0.671		0.0157	MDL	0.0984	PQL	mg/Kg	J	Q
CADMIUM	0.178		0.0433	MDL	0.0984	PQL	mg/Kg	J	Q
CHROMIUM	21.7		0.118	MDL	0.393	PQL	mg/Kg	J	Q, A
COBALT	7.24		0.0197	MDL	0.0984	PQL	mg/Kg	J	Q, E
COPPER	9.98		0.0787	MDL	0.393	PQL	mg/Kg	J	Q
LEAD	8.53		0.0100	MDL	0.197	PQL	mg/Kg	J	Q
NICKEL	14.0		0.0984	MDL	0.393	PQL	mg/Kg	J	Q
SILVER	0.0304	J	0.0140	MDL	0.0984	PQL	mg/Kg	J	Z, Q
THALLIUM	0.338		0.0295	MDL	0.0984	PQL	mg/Kg	J	Q
VANADIUM	45.4		0.0216	MDL	0.0984	PQL	mg/Kg	J	Q, E
ZINC	131		0.551	MDL	2.95	PQL	mg/Kg	J	E

Sample ID: SL-140-SA7-SS-0.0-0.5	Collected: 9/22/2011 1:45:00	Analysis Type: REA	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.180	J	0.0583	MDL	0.402	PQL	mg/Kg	J	Z, Q

Sample ID: SL-140-SA7-SS-0.0-0.5	Collected: 9/22/2011 1:45:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.722		0.0503	MDL	0.101	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-140-SA7-SS-0.0-0.5 Collected: 9/22/2011 1:45:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.197	J	0.0744	MDL	0.201	PQL	mg/Kg	J	Z, Q
ARSENIC	5.38		0.0804	MDL	0.402	PQL	mg/Kg	J	Q
BERYLLIUM	0.671		0.0161	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.163		0.0442	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	22.6		0.121	MDL	0.402	PQL	mg/Kg	J	Q, A
COBALT	7.11		0.0201	MDL	0.101	PQL	mg/Kg	J	Q, E
COPPER	9.90		0.0804	MDL	0.402	PQL	mg/Kg	J	Q
LEAD	10.3		0.0103	MDL	0.201	PQL	mg/Kg	J	Q
NICKEL	13.9		0.101	MDL	0.402	PQL	mg/Kg	J	Q
SILVER	0.0373	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.315		0.0302	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	45.6		0.0221	MDL	0.101	PQL	mg/Kg	J	Q, E
ZINC	80.3		0.563	MDL	3.02	PQL	mg/Kg	J	E

Sample ID: SL-152-SA7-SS-0.0-0.5 Collected: 9/23/2011 11:15:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.174	J	0.0579	MDL	0.399	PQL	mg/Kg	J	Z, Q

Sample ID: SL-152-SA7-SS-0.0-0.5 Collected: 9/23/2011 11:15:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.450		0.0499	MDL	0.0998	PQL	mg/Kg	J	Q

Sample ID: SL-152-SA7-SS-0.0-0.5 Collected: 9/23/2011 11:15:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.190	J	0.0739	MDL	0.200	PQL	mg/Kg	J	Z, Q
ARSENIC	5.67		0.0799	MDL	0.399	PQL	mg/Kg	J	Q
BERYLLIUM	0.466		0.0160	MDL	0.0998	PQL	mg/Kg	J	Q
CADMIUM	0.167		0.0439	MDL	0.0998	PQL	mg/Kg	J	Q
CHROMIUM	18.6		0.120	MDL	0.399	PQL	mg/Kg	J	Q, A
COBALT	6.88		0.0200	MDL	0.0998	PQL	mg/Kg	J	Q, E
COPPER	10.6		0.0799	MDL	0.399	PQL	mg/Kg	J	Q
LEAD	9.45		0.0102	MDL	0.200	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-152-SA7-SS-0.0-0.5

Collected: 9/23/2011 11:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	12.8		0.0998	MDL	0.399	PQL	mg/Kg	J	Q
SILVER	0.0376	J	0.0142	MDL	0.0998	PQL	mg/Kg	J	Z, Q
THALLIUM	0.296		0.0300	MDL	0.0998	PQL	mg/Kg	J	Q
VANADIUM	40.9		0.0220	MDL	0.0998	PQL	mg/Kg	J	Q, E
ZINC	73.8		0.559	MDL	3.00	PQL	mg/Kg	J	E

Sample ID: SL-153-SA7-SS-0.0-0.5

Collected: 9/23/2011 11:45:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.108	J	0.0567	MDL	0.391	PQL	mg/Kg	J	Z, Q

Sample ID: SL-153-SA7-SS-0.0-0.5

Collected: 9/23/2011 11:45:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.350		0.0489	MDL	0.0978	PQL	mg/Kg	J	Q

Sample ID: SL-153-SA7-SS-0.0-0.5

Collected: 9/23/2011 11:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.137	J	0.0723	MDL	0.196	PQL	mg/Kg	J	Z, Q
ARSENIC	5.09		0.0782	MDL	0.391	PQL	mg/Kg	J	Q
BERYLLIUM	0.376		0.0156	MDL	0.0978	PQL	mg/Kg	J	Q
CADMIUM	0.0883	J	0.0430	MDL	0.0978	PQL	mg/Kg	J	Z, Q
CHROMIUM	15.5		0.117	MDL	0.391	PQL	mg/Kg	J	Q, A
COBALT	5.58		0.0196	MDL	0.0978	PQL	mg/Kg	J	Q, E
COPPER	8.10		0.0782	MDL	0.391	PQL	mg/Kg	J	Q
LEAD	5.29		0.010	MDL	0.196	PQL	mg/Kg	J	Q
NICKEL	10.1		0.0978	MDL	0.391	PQL	mg/Kg	J	Q
SILVER	0.0214	J	0.0139	MDL	0.0978	PQL	mg/Kg	J	Z, Q
THALLIUM	0.223		0.0293	MDL	0.0978	PQL	mg/Kg	J	Q
VANADIUM	35.2		0.0215	MDL	0.0978	PQL	mg/Kg	J	Q, E
ZINC	51.4		0.547	MDL	2.93	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-181-SA7-SS-0.0-0.5

Collected: 9/23/2011 10:35:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.206	J	0.0588	MDL	0.406	PQL	mg/Kg	J	Z, Q

Sample ID: SL-181-SA7-SS-0.0-0.5

Collected: 9/23/2011 10:35:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.584		0.0507	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-181-SA7-SS-0.0-0.5

Collected: 9/23/2011 10:35:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.208		0.0751	MDL	0.203	PQL	mg/Kg	J	Q
ARSENIC	5.36		0.0812	MDL	0.406	PQL	mg/Kg	J	Q
BERYLLIUM	0.566		0.0162	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.207		0.0446	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	23.2		0.122	MDL	0.406	PQL	mg/Kg	J	Q, A
COBALT	7.68		0.0203	MDL	0.101	PQL	mg/Kg	J	Q, E
COPPER	12.3		0.0812	MDL	0.406	PQL	mg/Kg	J	Q
LEAD	7.82		0.0103	MDL	0.203	PQL	mg/Kg	J	Q
NICKEL	14.9		0.101	MDL	0.406	PQL	mg/Kg	J	Q
SILVER	0.0380	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.352		0.0304	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	46.7		0.0223	MDL	0.101	PQL	mg/Kg	J	Q, E
ZINC	87.9		0.568	MDL	3.04	PQL	mg/Kg	J	E

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: DUP05-SA7-QC-092211

Collected: 9/22/2011 3:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.22	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 7199 **Matrix:** SO

Sample ID: SL-015-SA7-SS-0.0-0.5 Collected: 9/22/2011 3:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.20	U	0.20	MDL	0.98	PQL	mg/Kg	UJ	FD

Sample ID: SL-027-SA7-SS-0.0-0.5 Collected: 9/23/2011 7:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.35	J	0.20	MDL	0.98	PQL	mg/Kg	J	Z

Sample ID: SL-030-SA7-SB-4.0-5.0 Collected: 9/23/2011 9:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-068-SA7-SS-0.0-0.5 Collected: 9/23/2011 2:32:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA7-SS-0.0-0.5 Collected: 9/23/2011 12:31:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.20	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-140-SA7-SS-0.0-0.5 Collected: 9/22/2011 1:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.29	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Method Category: METALS
Method: 7471A **Matrix:** SO

Sample ID: DUP05-SA7-QC-092211 Collected: 9/22/2011 3:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0144	J	0.0071	MDL	0.100	PQL	mg/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-015-SA7-SS-0.0-0.5			Collected: 9/22/2011 3:05:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
MERCURY	0.0071	J	0.0068	MDL	0.0973	PQL	mg/Kg	J	Z, FD	

Sample ID: SL-019-SA7-SS-0.0-0.5			Collected: 9/23/2011 12:08:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
MERCURY	0.0110	J	0.0070	MDL	0.0999	PQL	mg/Kg	J	Z	

Sample ID: SL-025-SA7-SS-0.0-0.5			Collected: 9/23/2011 8:10:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
MERCURY	0.0224	J	0.0069	MDL	0.0976	PQL	mg/Kg	J	Z	

Sample ID: SL-027-SA7-SS-0.0-0.5			Collected: 9/23/2011 7:45:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
MERCURY	0.0130	J	0.0070	MDL	0.0991	PQL	mg/Kg	J	Z	

Sample ID: SL-062-SA7-SS-0.0-0.5			Collected: 9/23/2011 8:35:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
MERCURY	0.0268	J	0.0070	MDL	0.100	PQL	mg/Kg	J	Z	

Sample ID: SL-066-SA7-SS-0.0-0.5			Collected: 9/23/2011 2:12:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
MERCURY	0.0124	J	0.0069	MDL	0.0976	PQL	mg/Kg	J	Z	

Sample ID: SL-067-SA7-SS-0.0-0.5			Collected: 9/23/2011 2:59:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
MERCURY	0.0159	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z	

Sample ID: SL-068-SA7-SS-0.0-0.5			Collected: 9/23/2011 2:32:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
MERCURY	0.0227	J	0.0070	MDL	0.100	PQL	mg/Kg	J	Z	

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 7471A **Matrix:** SO

Sample ID: SL-069-SA7-SS-0.0-0.5 Collected: 9/23/2011 12:31:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0080	J	0.0071	MDL	0.100	PQL	mg/Kg	J	Z

Sample ID: SL-076-SA7-SB-2.5-3.5 Collected: 9/23/2011 11:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0074	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA7-SS-0.0-0.5 Collected: 9/23/2011 9:58:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0115	J	0.0069	MDL	0.0984	PQL	mg/Kg	J	Z

Sample ID: SL-139-SA7-SS-0.0-0.5 Collected: 9/22/2011 2:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0089	J	0.0070	MDL	0.0992	PQL	mg/Kg	J	Z

Sample ID: SL-140-SA7-SS-0.0-0.5 Collected: 9/22/2011 1:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0297	J	0.0070	MDL	0.0995	PQL	mg/Kg	J	Z

Sample ID: SL-152-SA7-SS-0.0-0.5 Collected: 9/23/2011 11:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0088	J	0.0070	MDL	0.0997	PQL	mg/Kg	J	Z

Sample ID: SL-181-SA7-SS-0.0-0.5 Collected: 9/23/2011 10:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0147	J	0.0069	MDL	0.0978	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8015M **Matrix:** SO

Sample ID: DUP05-SA7-QC-092211 Collected: 9/22/2011 3:10:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.40	U	0.40	MDL	1.2	PQL	mg/Kg	UJ	FD
EFH (C21-C30)	3.5		0.40	MDL	1.2	PQL	mg/Kg	J	FD

Sample ID: SL-015-SA7-SS-0.0-0.5 Collected: 9/22/2011 3:05:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.79	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z, FD
EFH (C21-C30)	6.8		0.41	MDL	1.2	PQL	mg/Kg	J	Q, FD

Sample ID: SL-015-SA7-SS-0.0-0.5 Collected: 9/22/2011 3:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.1	U	5.1	MDL	10	PQL	mg/Kg	R	Q
ETHYLENE GLYCOL	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q
Propylene glycol	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: SL-019-SA7-SS-0.0-0.5 Collected: 9/23/2011 12:08:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.48	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-066-SA7-SS-0.0-0.5 Collected: 9/23/2011 2:12:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C8-C11)	0.51	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-067-SA7-SS-0.0-0.5 Collected: 9/23/2011 2:59:00 Analysis Type: REA Dilution: 25

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	16	J	11	MDL	32	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA7-SS-0.0-0.5 Collected: 9/23/2011 12:31:00 Analysis Type: REA Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	5.2	J	2.0	MDL	6.1	PQL	mg/Kg	J	Z
EFH (C8-C11)	2.1	J	2.0	MDL	6.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-073-SA7-SB-4.0-5.0 Collected: 9/23/2011 10:00:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.43	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-139-SA7-SS-0.0-0.5 Collected: 9/22/2011 2:40:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.81	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-140-SA7-SS-0.0-0.5 Collected: 9/22/2011 1:45:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.93	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-152-SA7-SS-0.0-0.5 Collected: 9/23/2011 11:15:00 Analysis Type: REA Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	2.3	J	2.0	MDL	6.1	PQL	mg/Kg	J	Z
EFH (C8-C11)	3.5	J	2.0	MDL	6.1	PQL	mg/Kg	J	Z

Sample ID: SL-153-SA7-SS-0.0-0.5 Collected: 9/23/2011 11:45:00 Analysis Type: REA Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C8-C11)	2.0	J	2.0	MDL	6.0	PQL	mg/Kg	J	Z

Sample ID: SL-181-SA7-SS-0.0-0.5 Collected: 9/23/2011 10:35:00 Analysis Type: REA Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	3.9	J	2.0	MDL	6.1	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	8081A	Matrix: SO

Sample ID: SL-015-SA7-SS-0.0-0.5 Collected: 9/22/2011 3:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	R	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8081A	Matrix:	SO
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Sample ID: SL-025-SA7-SS-0.0-0.5 Collected: 9/23/2011 8:10:00 Analysis Type: DL-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOXAPHENE	21	J	11	MDL	34	PQL	ug/Kg	J	Z

Sample ID: SL-027-SA7-SS-0.0-0.5 Collected: 9/23/2011 7:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	1.2	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-062-SA7-SS-0.0-0.5 Collected: 9/23/2011 8:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.14	J	0.070	MDL	0.34	PQL	ug/Kg	J	Z
Chlordane	3.1	J	1.6	MDL	7.0	PQL	ug/Kg	J	Z

Sample ID: SL-066-SA7-SS-0.0-0.5 Collected: 9/23/2011 2:12:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	2.1	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z
DELTA-BHC	0.096	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-067-SA7-SS-0.0-0.5 Collected: 9/23/2011 2:59:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	3.0	J	0.85	MDL	3.6	PQL	ug/Kg	J	Z
HEPTACHLOR	0.14	J	0.064	MDL	0.18	PQL	ug/Kg	J	Z

Sample ID: SL-068-SA7-SS-0.0-0.5 Collected: 9/23/2011 2:32:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
gamma-BHC (Lindane)	0.043	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z
METHOXYCHLOR	1.1	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-069-SA7-SS-0.0-0.5 Collected: 9/23/2011 12:31:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDRIN ALDEHYDE	0.18	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8081A	Matrix:	SO
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Sample ID: SL-140-SA7-SS-0.0-0.5 Collected: 9/22/2011 1:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.32	J	0.067	MDL	0.35	PQL	ug/Kg	J	Z

Sample ID: SL-152-SA7-SS-0.0-0.5 Collected: 9/23/2011 11:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.15	J	0.037	MDL	0.17	PQL	ug/Kg	J	Z
METHOXYCHLOR	0.53	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
TOXAPHENE	6.4	J	2.2	MDL	6.7	PQL	ug/Kg	J	Z

Sample ID: SL-153-SA7-SS-0.0-0.5 Collected: 9/23/2011 11:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.15	J	0.066	MDL	0.34	PQL	ug/Kg	J	Z
4,4'-DDT	0.12	J	0.066	MDL	0.34	PQL	ug/Kg	J	Z
ENDRIN ALDEHYDE	0.18	J	0.066	MDL	0.34	PQL	ug/Kg	J	Z

Sample ID: SL-181-SA7-SS-0.0-0.5 Collected: 9/23/2011 10:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	0.24	J	0.068	MDL	0.35	PQL	ug/Kg	J	Z

Method Category:	SVOA	Method:	8082	Matrix:	SO
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Sample ID: DUP05-SA7-QC-092211 Collected: 9/22/2011 3:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.6	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	2.6	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: SL-015-SA7-SS-0.0-0.5 Collected: 9/22/2011 3:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	2.0		0.33	MDL	1.7	PQL	ug/Kg	J	S
AROCLOR 1260	1.9		0.40	MDL	1.7	PQL	ug/Kg	J	S

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-015-SA7-SS-0.0-0.5			Collected: 9/22/2011 3:05:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
Aroclor 5460	3.7		1.0	MDL	3.3	PQL	ug/Kg	J	S	

Sample ID: SL-019-SA7-SS-0.0-0.5			Collected: 9/23/2011 12:08:00			Analysis Type: RES-BASE/NEUTRAL			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
AROCLOR 1260	1.0	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z	
Aroclor 5460	1.4	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z	

Sample ID: SL-025-SA7-SS-0.0-0.5			Collected: 9/23/2011 8:10:00			Analysis Type: RES-BASE/NEUTRAL			Dilution: 10	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
AROCLOR 1242	4.2	J	3.4	MDL	17	PQL	ug/Kg	J	Z	

Sample ID: SL-066-SA7-SS-0.0-0.5			Collected: 9/23/2011 2:12:00			Analysis Type: RES-BASE/NEUTRAL			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
AROCLOR 1254	0.90	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z, S	
AROCLOR 1260	3.2		0.39	MDL	1.7	PQL	ug/Kg	J	S	
Aroclor 5460	2.6	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z, S	

Sample ID: SL-067-SA7-SS-0.0-0.5			Collected: 9/23/2011 2:59:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
Aroclor 5460	3.1	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z	

Sample ID: SL-069-SA7-SS-0.0-0.5			Collected: 9/23/2011 12:31:00			Analysis Type: RES-BASE/NEUTRAL			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
AROCLOR 1254	0.58	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z	

Sample ID: SL-073-SA7-SB-4.0-5.0			Collected: 9/23/2011 10:00:00			Analysis Type: RES-BASE/NEUTRAL			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
AROCLOR 1260	0.86	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z	

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA			
Method:	8082	Matrix:	SO	

Sample ID: SL-139-SA7-SS-0.0-0.5 Collected: 9/22/2011 2:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.5	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	1.6	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: SL-140-SA7-SS-0.0-0.5 Collected: 9/22/2011 1:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.82	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	2.0	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-181-SA7-SS-0.0-0.5 Collected: 9/23/2011 10:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.6	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	1.6	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Method Category:	SVOA			
Method:	8151A	Matrix:	SO	

Sample ID: DUP05-SA7-QC-092211 Collected: 9/22/2011 3:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.40	U	0.40	MDL	1.2	PQL	ug/Kg	UJ	FD
MCPA	650		77	MDL	250	PQL	ug/Kg	J	L, FD

Sample ID: SL-015-SA7-SS-0.0-0.5 Collected: 9/22/2011 3:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.69	J	0.40	MDL	1.2	PQL	ug/Kg	J	Z, FD
MCPA	1900		77	MDL	250	PQL	ug/Kg	J	Q, L, FD

Sample ID: SL-025-SA7-SS-0.0-0.5 Collected: 9/23/2011 8:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MCPA	1100		77	MDL	250	PQL	ug/Kg	J	L

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8151A	Matrix: SO

Sample ID: SL-089-SA7-SS-0.0-0.5 Collected: 9/23/2011 9:58:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	1.8	J	1.3	MDL	3.8	PQL	ug/Kg	J	Z
DICAMBA	0.75	J	0.42	MDL	1.3	PQL	ug/Kg	J	Z

Sample ID: SL-140-SA7-SS-0.0-0.5 Collected: 9/22/2011 1:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.68	J	0.40	MDL	1.2	PQL	ug/Kg	J	Z

Sample ID: SL-153-SA7-SS-0.0-0.5 Collected: 9/23/2011 11:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.41	J	0.40	MDL	1.2	PQL	ug/Kg	J	Z

Sample ID: SL-181-SA7-SS-0.0-0.5 Collected: 9/23/2011 10:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.80	J	0.41	MDL	1.2	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: DUP05-SA7-QC-092211 Collected: 9/22/2011 3:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	17	MDL	330	PQL	ug/Kg	J	Z

Sample ID: SL-015-SA7-SS-0.0-0.5 Collected: 9/22/2011 3:05:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	330	U	330	MDL	1000	PQL	ug/Kg	UJ	Q
BENZIDINE	1200	U	1200	MDL	3300	PQL	ug/Kg	R	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-140-SA7-SS-0.0-0.5 Collected: 9/22/2011 1:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	17	MDL	330	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: DUP05-SA7-QC-092211 Collected: 9/22/2011 3:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.77	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, FD
Butylbenzylphthalate	29		6.0	MDL	18	PQL	ug/Kg	J	FD
CHRYSENE	0.35	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z, FD

Sample ID: SL-015-SA7-SS-0.0-0.5 Collected: 9/22/2011 3:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.67	U	0.67	MDL	1.7	PQL	ug/Kg	UJ	FD
BIS(2-ETHYLHEXYL)PHTHALATE	8.9	J	6.0	MDL	18	PQL	ug/Kg	J	Z
Butylbenzylphthalate	6.0	U	6.0	MDL	18	PQL	ug/Kg	UJ	FD
CHRYSENE	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	FD

Sample ID: SL-019-SA7-SS-0.0-0.5 Collected: 9/23/2011 12:08:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.75	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.1	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.5	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.9	J	6.0	MDL	18	PQL	ug/Kg	J	Z
CHRYSENE	0.89	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.1	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.1	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-025-SA7-SS-0.0-0.5 Collected: 9/23/2011 8:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	4.6	J	3.3	MDL	8.4	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8270C SIM **Matrix:** SO

Sample ID: SL-025-SA7-SS-0.0-0.5 Collected: 9/23/2011 8:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	3.9	J	3.3	MDL	8.4	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	30	J	30	MDL	90	PQL	ug/Kg	J	Z
CHRYSENE	8.0	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z
FLUORANTHENE	7.4	J	3.3	MDL	8.4	PQL	ug/Kg	J	Z
PYRENE	7.0	J	3.3	MDL	8.4	PQL	ug/Kg	J	Z

Sample ID: SL-027-SA7-SS-0.0-0.5 Collected: 9/23/2011 7:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.97	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.69	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	6.3	J	6.0	MDL	18	PQL	ug/Kg	J	Z
CHRYSENE	1.4	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-octylphthalate	9.2	J	6.0	MDL	18	PQL	ug/Kg	J	Z
PHENANTHRENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-030-SA7-SB-4.0-5.0 Collected: 9/23/2011 9:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	9.7	J	6.3	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-062-SA7-SS-0.0-0.5 Collected: 9/23/2011 8:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	6.4	J	3.4	MDL	8.5	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	47	J	31	MDL	92	PQL	ug/Kg	J	Z
CHRYSENE	4.7	J	1.7	MDL	8.5	PQL	ug/Kg	J	Z
FLUORANTHENE	5.6	J	3.4	MDL	8.5	PQL	ug/Kg	J	Z
NAPHTHALENE	4.3	J	3.4	MDL	8.5	PQL	ug/Kg	J	Z
PHENANTHRENE	4.3	J	3.4	MDL	8.5	PQL	ug/Kg	J	Z
PYRENE	5.3	J	3.4	MDL	8.5	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8270C SIM	Matrix:	SO
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Sample ID: SL-066-SA7-SS-0.0-0.5 Collected: 9/23/2011 2:12:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	2.7	J	1.7	MDL	8.3	PQL	ug/Kg	J	Z

Sample ID: SL-067-SA7-SS-0.0-0.5 Collected: 9/23/2011 2:59:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.0	J	6.4	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	0.92	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	0.98	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-068-SA7-SS-0.0-0.5 Collected: 9/23/2011 2:32:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	3.7	J	3.3	MDL	8.4	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	7.4	J	3.3	MDL	8.4	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	56	J	30	MDL	90	PQL	ug/Kg	J	Z
Butylbenzylphthalate	60	J	30	MDL	90	PQL	ug/Kg	J	Z
CHRYSENE	7.1	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z
FLUORANTHENE	7.7	J	3.3	MDL	8.4	PQL	ug/Kg	J	Z
PHENANTHRENE	3.4	J	3.3	MDL	8.4	PQL	ug/Kg	J	Z
PYRENE	5.2	J	3.3	MDL	8.4	PQL	ug/Kg	J	Z

Sample ID: SL-069-SA7-SS-0.0-0.5 Collected: 9/23/2011 12:31:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.84	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.4	J	6.0	MDL	18	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.4	J	6.0	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-073-SA7-SB-4.0-5.0 Collected: 9/23/2011 10:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	16	J	6.2	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: SL-076-SA7-SB-2.5-3.5 Collected: 9/23/2011 11:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.3	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-089-SA7-SS-0.0-0.5 Collected: 9/23/2011 9:58:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.3	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.50	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-139-SA7-SS-0.0-0.5 Collected: 9/22/2011 2:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.6	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-140-SA7-SS-0.0-0.5 Collected: 9/22/2011 1:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.81	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.5	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.0	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.6	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.71	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.6	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-152-SA7-SS-0.0-0.5 Collected: 9/23/2011 11:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.60	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	6.7	J	6.1	MDL	18	PQL	ug/Kg	J	Z
FLUORENE	0.74	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: SL-153-SA7-SS-0.0-0.5 Collected: 9/23/2011 11:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.0	MDL	18	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8315A	Matrix: SO

Sample ID: SL-089-SA7-SS-0.0-0.5 Collected: 9/23/2011 9:58:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	790	J	630	MDL	1600	PQL	ug/Kg	J	Z

Sample ID: SL-152-SA7-SS-0.0-0.5 Collected: 9/23/2011 11:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	710	J	610	MDL	1500	PQL	ug/Kg	J	Z

Sample ID: SL-153-SA7-SS-0.0-0.5 Collected: 9/23/2011 11:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	1100	J	600	MDL	1500	PQL	ug/Kg	J	Z

Sample ID: SL-181-SA7-SS-0.0-0.5 Collected: 9/23/2011 10:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	940	J	610	MDL	1500	PQL	ug/Kg	J	Z

Method Category:	VOA	
Method:	8015B	Matrix: SO

Sample ID: DUP05-SA7-QC-092211 Collected: 9/22/2011 3:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	250	J	100	MDL	510	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	VOA	
Method:	8015B	Matrix: SO

Sample ID: SL-015-SA7-SS-0.0-0.5			Collected: 9/22/2011 3:05:00			Analysis Type: RES		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	100	U	100	MDL	510	PQL	ug/Kg	UJ	FD

Sample ID: SL-019-SA7-SS-0.0-0.5			Collected: 9/23/2011 12:08:00			Analysis Type: RES		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	440	J	100	MDL	510	PQL	ug/Kg	J	Z

Sample ID: SL-066-SA7-SS-0.0-0.5			Collected: 9/23/2011 2:12:00			Analysis Type: RES		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	150	J	100	MDL	510	PQL	ug/Kg	J	Z

Sample ID: SL-067-SA7-SS-0.0-0.5			Collected: 9/23/2011 2:59:00			Analysis Type: RES		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	380	J	210	MDL	1100	PQL	ug/Kg	J	Z

Sample ID: SL-152-SA7-SS-0.0-0.5			Collected: 9/23/2011 11:15:00			Analysis Type: RES		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	210	J	100	MDL	510	PQL	ug/Kg	J	Z

Sample ID: SL-153-SA7-SS-0.0-0.5			Collected: 9/23/2011 11:45:00			Analysis Type: RES		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	170	J	100	MDL	500	PQL	ug/Kg	J	Z
METHANOL	220	J	100	MDL	500	PQL	ug/Kg	J	Z

Sample ID: SL-181-SA7-SS-0.0-0.5			Collected: 9/23/2011 10:35:00			Analysis Type: RES		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	110	J	100	MDL	510	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE252

Method Blank Outlier Report

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: DE252_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P26908HB220028	10/4/2011 12:28:00 AM	CALCIUM PHOSPHORUS STRONTIUM TIN	5.95 mg/Kg 1.28 mg/Kg 0.0380 mg/Kg 1.52 mg/Kg	DUP05-SA7-QC-092211 SL-015-SA7-SS-0.0-0.5 SL-019-SA7-SS-0.0-0.5 SL-025-SA7-SS-0.0-0.5 SL-027-SA7-SS-0.0-0.5 SL-028-SA7-SB-4.0-5.0 SL-030-SA7-SB-4.0-5.0 SL-062-SA7-SS-0.0-0.5 SL-066-SA7-SS-0.0-0.5 SL-067-SA7-SS-0.0-0.5 SL-068-SA7-SS-0.0-0.5 SL-069-SA7-SS-0.0-0.5 SL-073-SA7-SB-4.0-5.0 SL-076-SA7-SB-2.5-3.5 SL-089-SA7-SS-0.0-0.5 SL-139-SA7-SS-0.0-0.5 SL-140-SA7-SS-0.0-0.5 SL-152-SA7-SS-0.0-0.5 SL-153-SA7-SS-0.0-0.5 SL-181-SA7-SS-0.0-0.5
P27808BB221958	10/6/2011 7:58:00 PM	IRON	2.98 mg/Kg	DUP05-SA7-QC-092211 SL-015-SA7-SS-0.0-0.5 SL-019-SA7-SS-0.0-0.5 SL-025-SA7-SS-0.0-0.5 SL-027-SA7-SS-0.0-0.5 SL-028-SA7-SB-4.0-5.0 SL-030-SA7-SB-4.0-5.0 SL-062-SA7-SS-0.0-0.5 SL-066-SA7-SS-0.0-0.5 SL-067-SA7-SS-0.0-0.5 SL-068-SA7-SS-0.0-0.5 SL-069-SA7-SS-0.0-0.5 SL-073-SA7-SB-4.0-5.0 SL-076-SA7-SB-2.5-3.5 SL-089-SA7-SS-0.0-0.5 SL-139-SA7-SS-0.0-0.5 SL-140-SA7-SS-0.0-0.5 SL-152-SA7-SS-0.0-0.5 SL-153-SA7-SS-0.0-0.5 SL-181-SA7-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP05-SA7-QC-092211(RES)	TIN	2.99 mg/Kg	2.99U mg/Kg
SL-015-SA7-SS-0.0-0.5(RES)	TIN	2.90 mg/Kg	2.90U mg/Kg
SL-019-SA7-SS-0.0-0.5(RES)	TIN	2.87 mg/Kg	2.87U mg/Kg
SL-025-SA7-SS-0.0-0.5(RES)	TIN	2.91 mg/Kg	2.91U mg/Kg
SL-027-SA7-SS-0.0-0.5(RES)	TIN	3.07 mg/Kg	3.07U mg/Kg
SL-028-SA7-SB-4.0-5.0(RES)	TIN	3.06 mg/Kg	3.06U mg/Kg
SL-030-SA7-SB-4.0-5.0(RES)	TIN	2.83 mg/Kg	2.83U mg/Kg
SL-062-SA7-SS-0.0-0.5(RES)	TIN	3.10 mg/Kg	3.10U mg/Kg
SL-066-SA7-SS-0.0-0.5(RES)	TIN	2.88 mg/Kg	2.88U mg/Kg
SL-067-SA7-SS-0.0-0.5(RES)	TIN	3.11 mg/Kg	3.11U mg/Kg
SL-068-SA7-SS-0.0-0.5(RES)	TIN	3.02 mg/Kg	3.02U mg/Kg

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: DE252_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-069-SA7-SS-0.0-0.5(RES)	TIN	2.80 mg/Kg	2.80U mg/Kg
SL-073-SA7-SB-4.0-5.0(RES)	TIN	2.85 mg/Kg	2.85U mg/Kg
SL-076-SA7-SB-2.5-3.5(RES)	TIN	3.19 mg/Kg	3.19U mg/Kg
SL-089-SA7-SS-0.0-0.5(RES)	TIN	2.59 mg/Kg	2.59U mg/Kg
SL-139-SA7-SS-0.0-0.5(RES)	TIN	3.02 mg/Kg	3.02U mg/Kg
SL-140-SA7-SS-0.0-0.5(RES)	TIN	2.85 mg/Kg	2.85U mg/Kg
SL-152-SA7-SS-0.0-0.5(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-153-SA7-SS-0.0-0.5(RES)	TIN	2.58 mg/Kg	2.58U mg/Kg
SL-181-SA7-SS-0.0-0.5(RES)	TIN	2.74 mg/Kg	2.74U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: DE252_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-015-SA7-SS-0.0-0.5MS SL-015-SA7-SS-0.0-0.5MSD (SL-015-SA7-SS-0.0-0.5)	2,4-DB	274	288	10.00-201.00	-	2,4-DB	J (all detects)
SL-015-SA7-SS-0.0-0.5MS SL-015-SA7-SS-0.0-0.5MSD (SL-015-SA7-SS-0.0-0.5)	MCPA	-155	-131	10.00-213.00	-	MCPA	J(all detects) R(all non-detects)

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-015-SA7-SS-0.0-0.5MSD (SL-015-SA7-SS-0.0-0.5)	ETHANOL Isopropanol METHANOL	- - -	- - -	48.00-130.00 12.00-149.00 43.00-138.00	43 (20.00) 44 (20.00) 37 (20.00)	ETHANOL Isopropanol METHANOL	J(all detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-015-SA7-SS-0.0-0.5MS SL-015-SA7-SS-0.0-0.5MSD (SL-015-SA7-SS-0.0-0.5)	4,4'-DDE BETA-BHC	269 747	468 -	18.00-161.00 14.00-147.00	- 154 (50.00)	4,4'-DDE BETA-BHC	J(all detects)
SL-015-SA7-SS-0.0-0.5MSD (SL-015-SA7-SS-0.0-0.5)	4,4'-DDD	-	0	16.00-163.00	200 (50.00)	4,4'-DDD	J(all detects) R(all non-detects)

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-015-SA7-SS-0.0-0.5MS SL-015-SA7-SS-0.0-0.5MSD (SL-015-SA7-SS-0.0-0.5)	DIETHYLENE GLYCOL	0	0	59.00-109.00	-	DIETHYLENE GLYCOL	J(all detects) R(all non-detects)
SL-015-SA7-SS-0.0-0.5MS SL-015-SA7-SS-0.0-0.5MSD (SL-015-SA7-SS-0.0-0.5)	ETHYLENE GLYCOL Propylene glycol	15 25	14 24	63.00-107.00 63.00-107.00	- -	ETHYLENE GLYCOL Propylene glycol	J(all detects) UJ(all non-detects)
SL-015-SA7-SS-0.0-0.5MS SL-015-SA7-SS-0.0-0.5MSD (SL-015-SA7-SS-0.0-0.5)	EFH (C21-C30) EFH (C30-C40)	-6 -211	-12 -41	49.00-123.00 49.00-123.00	- 33 (20.00)	EFH (C21-C30) EFH (C30-C40)	J(all detects) R(all non-detects) EFH (C30-C40), No Qual >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: DE252_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-015-SA7-SS-0.0-0.5MS SL-015-SA7-SS-0.0-0.5MSD (DUP05-SA7-QC-092211 SL-015-SA7-SS-0.0-0.5 SL-019-SA7-SS-0.0-0.5 SL-025-SA7-SS-0.0-0.5 SL-027-SA7-SS-0.0-0.5 SL-028-SA7-SB-4.0-5.0 SL-030-SA7-SB-4.0-5.0 SL-062-SA7-SS-0.0-0.5 SL-066-SA7-SS-0.0-0.5 SL-067-SA7-SS-0.0-0.5 SL-068-SA7-SS-0.0-0.5 SL-069-SA7-SS-0.0-0.5 SL-073-SA7-SB-4.0-5.0 SL-076-SA7-SB-2.5-3.5 SL-089-SA7-SS-0.0-0.5 SL-139-SA7-SS-0.0-0.5 SL-140-SA7-SS-0.0-0.5 SL-152-SA7-SS-0.0-0.5 SL-153-SA7-SS-0.0-0.5 SL-181-SA7-SS-0.0-0.5)	ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	189 132 136 149 141 151 172 159 139 156 200 249	163 - 129 130 132 142 147 147 132 149 164 205	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - - - - - - -	ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	J(all detects) Zn, No Qual >4x
SL-015-SA7-SS-0.0-0.5MS SL-015-SA7-SS-0.0-0.5MSD (DUP05-SA7-QC-092211 SL-015-SA7-SS-0.0-0.5 SL-019-SA7-SS-0.0-0.5 SL-025-SA7-SS-0.0-0.5 SL-027-SA7-SS-0.0-0.5 SL-028-SA7-SB-4.0-5.0 SL-030-SA7-SB-4.0-5.0 SL-062-SA7-SS-0.0-0.5 SL-066-SA7-SS-0.0-0.5 SL-067-SA7-SS-0.0-0.5 SL-068-SA7-SS-0.0-0.5 SL-069-SA7-SS-0.0-0.5 SL-073-SA7-SB-4.0-5.0 SL-076-SA7-SB-2.5-3.5 SL-089-SA7-SS-0.0-0.5 SL-139-SA7-SS-0.0-0.5 SL-140-SA7-SS-0.0-0.5 SL-152-SA7-SS-0.0-0.5 SL-153-SA7-SS-0.0-0.5 SL-181-SA7-SS-0.0-0.5)	ANTIMONY	55	63	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-015-SA7-SS-0.0-0.5MS SL-015-SA7-SS-0.0-0.5MSD (DUP05-SA7-QC-092211 SL-015-SA7-SS-0.0-0.5 SL-019-SA7-SS-0.0-0.5 SL-025-SA7-SS-0.0-0.5 SL-027-SA7-SS-0.0-0.5 SL-028-SA7-SB-4.0-5.0 SL-030-SA7-SB-4.0-5.0 SL-062-SA7-SS-0.0-0.5 SL-066-SA7-SS-0.0-0.5 SL-067-SA7-SS-0.0-0.5 SL-068-SA7-SS-0.0-0.5 SL-069-SA7-SS-0.0-0.5 SL-073-SA7-SB-4.0-5.0 SL-076-SA7-SB-2.5-3.5 SL-089-SA7-SS-0.0-0.5 SL-139-SA7-SS-0.0-0.5 SL-140-SA7-SS-0.0-0.5 SL-152-SA7-SS-0.0-0.5 SL-153-SA7-SS-0.0-0.5 SL-181-SA7-SS-0.0-0.5)	SELENIUM	131	127	75.00-125.00	-	SELENIUM	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: DE252_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-015-SA7-SS-0.0-0.5MS SL-015-SA7-SS-0.0-0.5MSD (DUP05-SA7-QC-092211 SL-015-SA7-SS-0.0-0.5 SL-019-SA7-SS-0.0-0.5 SL-025-SA7-SS-0.0-0.5 SL-027-SA7-SS-0.0-0.5 SL-028-SA7-SB-4.0-5.0 SL-030-SA7-SB-4.0-5.0 SL-062-SA7-SS-0.0-0.5 SL-066-SA7-SS-0.0-0.5 SL-067-SA7-SS-0.0-0.5 SL-068-SA7-SS-0.0-0.5 SL-069-SA7-SS-0.0-0.5 SL-073-SA7-SB-4.0-5.0 SL-076-SA7-SB-2.5-3.5 SL-089-SA7-SS-0.0-0.5 SL-139-SA7-SS-0.0-0.5 SL-140-SA7-SS-0.0-0.5 SL-152-SA7-SS-0.0-0.5 SL-153-SA7-SS-0.0-0.5 SL-181-SA7-SS-0.0-0.5)	MOLYBDENUM	141	134	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-015-SA7-SS-0.0-0.5MS SL-015-SA7-SS-0.0-0.5MSD (DUP05-SA7-QC-092211 SL-015-SA7-SS-0.0-0.5 SL-019-SA7-SS-0.0-0.5 SL-025-SA7-SS-0.0-0.5 SL-027-SA7-SS-0.0-0.5 SL-028-SA7-SB-4.0-5.0 SL-030-SA7-SB-4.0-5.0 SL-062-SA7-SS-0.0-0.5 SL-066-SA7-SS-0.0-0.5 SL-067-SA7-SS-0.0-0.5 SL-068-SA7-SS-0.0-0.5 SL-069-SA7-SS-0.0-0.5 SL-073-SA7-SB-4.0-5.0 SL-076-SA7-SB-2.5-3.5 SL-089-SA7-SS-0.0-0.5 SL-139-SA7-SS-0.0-0.5 SL-140-SA7-SS-0.0-0.5 SL-152-SA7-SS-0.0-0.5 SL-153-SA7-SS-0.0-0.5 SL-181-SA7-SS-0.0-0.5)	BARIUM	285	259	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: DE252_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-015-SA7-SS-0.0-0.5MS SL-015-SA7-SS-0.0-0.5MSD (DUP05-SA7-QC-092211 SL-015-SA7-SS-0.0-0.5 SL-019-SA7-SS-0.0-0.5 SL-025-SA7-SS-0.0-0.5 SL-027-SA7-SS-0.0-0.5 SL-028-SA7-SB-4.0-5.0 SL-030-SA7-SB-4.0-5.0 SL-062-SA7-SS-0.0-0.5 SL-066-SA7-SS-0.0-0.5 SL-067-SA7-SS-0.0-0.5 SL-068-SA7-SS-0.0-0.5 SL-069-SA7-SS-0.0-0.5 SL-073-SA7-SB-4.0-5.0 SL-076-SA7-SB-2.5-3.5 SL-089-SA7-SS-0.0-0.5 SL-139-SA7-SS-0.0-0.5 SL-140-SA7-SS-0.0-0.5 SL-152-SA7-SS-0.0-0.5 SL-153-SA7-SS-0.0-0.5 SL-181-SA7-SS-0.0-0.5)	ALUMINUM CALCIUM MAGNESIUM POTASSIUM TITANIUM	1613 - 208 126 212	1745 144 265 136 253	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ALUMINUM CALCIUM MAGNESIUM POTASSIUM TITANIUM	J(all detects) Al, Ca, Mg, Ti No Qual, >4x

Method: 300.0

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-015-SA7-SS-0.0-0.5MS (DUP05-SA7-QC-092211 SL-015-SA7-SS-0.0-0.5 SL-019-SA7-SS-0.0-0.5 SL-025-SA7-SS-0.0-0.5 SL-027-SA7-SS-0.0-0.5 SL-062-SA7-SS-0.0-0.5 SL-066-SA7-SS-0.0-0.5 SL-067-SA7-SS-0.0-0.5 SL-139-SA7-SS-0.0-0.5 SL-140-SA7-SS-0.0-0.5)	FLUORIDE	51	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-015-SA7-SS-0.0-0.5MS SL-015-SA7-SS-0.0-0.5MSD (SL-015-SA7-SS-0.0-0.5)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)
SL-015-SA7-SS-0.0-0.5MSD (SL-015-SA7-SS-0.0-0.5)	2,4-DINITROPHENOL	-	17	20.00-143.00	-	2,4-DINITROPHENOL	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: DE252_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-015-SA7-SS-0.0-0.5MS SL-015-SA7-SS-0.0-0.5MSD (DUP05-SA7-QC-092211 SL-015-SA7-SS-0.0-0.5 SL-019-SA7-SS-0.0-0.5 SL-025-SA7-SS-0.0-0.5 SL-027-SA7-SS-0.0-0.5 SL-028-SA7-SB-4.0-5.0 SL-030-SA7-SB-4.0-5.0 SL-062-SA7-SS-0.0-0.5 SL-066-SA7-SS-0.0-0.5 SL-067-SA7-SS-0.0-0.5 SL-068-SA7-SS-0.0-0.5 SL-069-SA7-SS-0.0-0.5 SL-073-SA7-SB-4.0-5.0 SL-076-SA7-SB-2.5-3.5 SL-089-SA7-SS-0.0-0.5 SL-139-SA7-SS-0.0-0.5 SL-140-SA7-SS-0.0-0.5 SL-152-SA7-SS-0.0-0.5 SL-153-SA7-SS-0.0-0.5 SL-181-SA7-SS-0.0-0.5)	IRON	-74	-192	75.00-125.00	-	IRON	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: DE252_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-015-SA7-SS-0.0-0.5DUP (DUP05-SA7-QC-092211 SL -015-SA7-SS-0.0-0.5 SL -019-SA7-SS-0.0-0.5 SL -025-SA7-SS-0.0-0.5 SL -027-SA7-SS-0.0-0.5 SL -028-SA7-SB-4.0-5.0 SL -030-SA7-SB-4.0-5.0 SL -062-SA7-SS-0.0-0.5 SL -066-SA7-SS-0.0-0.5 SL -067-SA7-SS-0.0-0.5 SL -068-SA7-SS-0.0-0.5 SL -069-SA7-SS-0.0-0.5 SL -073-SA7-SB-4.0-5.0 SL -076-SA7-SB-2.5-3.5 SL -089-SA7-SS-0.0-0.5 SL -139-SA7-SS-0.0-0.5 SL -140-SA7-SS-0.0-0.5 SL -152-SA7-SS-0.0-0.5 SL -153-SA7-SS-0.0-0.5 SL -181-SA7-SS-0.0-0.5)	Zirconium	22	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-015-SA7-SS-0.0-0.5DUP (DUP05-SA7-QC-092211 SL -015-SA7-SS-0.0-0.5 SL -019-SA7-SS-0.0-0.5 SL -025-SA7-SS-0.0-0.5 SL -027-SA7-SS-0.0-0.5 SL -028-SA7-SB-4.0-5.0 SL -030-SA7-SB-4.0-5.0 SL -062-SA7-SS-0.0-0.5 SL -066-SA7-SS-0.0-0.5 SL -067-SA7-SS-0.0-0.5 SL -068-SA7-SS-0.0-0.5 SL -069-SA7-SS-0.0-0.5 SL -073-SA7-SB-4.0-5.0 SL -076-SA7-SB-2.5-3.5 SL -089-SA7-SS-0.0-0.5 SL -139-SA7-SS-0.0-0.5 SL -140-SA7-SS-0.0-0.5 SL -152-SA7-SS-0.0-0.5 SL -153-SA7-SS-0.0-0.5 SL -181-SA7-SS-0.0-0.5)	COBALT SELENIUM VANADIUM ZINC	28 28 22 23	20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects) Se, No Qual, OK by Difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: DE252_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-015-SA7-SS-0.0-0.5DUP (DUP05-SA7-QC-092211 SL -015-SA7-SS-0.0-0.5 SL -019-SA7-SS-0.0-0.5 SL -025-SA7-SS-0.0-0.5 SL -027-SA7-SS-0.0-0.5 SL -028-SA7-SB-4.0-5.0 SL -030-SA7-SB-4.0-5.0 SL -062-SA7-SS-0.0-0.5 SL -066-SA7-SS-0.0-0.5 SL -067-SA7-SS-0.0-0.5 SL -068-SA7-SS-0.0-0.5 SL -069-SA7-SS-0.0-0.5 SL -073-SA7-SB-4.0-5.0 SL -076-SA7-SB-2.5-3.5 SL -089-SA7-SS-0.0-0.5 SL -139-SA7-SS-0.0-0.5 SL -140-SA7-SS-0.0-0.5 SL -152-SA7-SS-0.0-0.5 SL -153-SA7-SS-0.0-0.5 SL -181-SA7-SS-0.0-0.5)	HEXAVALENT CHROMIUM	200	20.00	No Qual, OK by Difference

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-015-SA7-SS-0.0-0.5DUP (DUP05-SA7-QC-092211 SL -015-SA7-SS-0.0-0.5 SL -019-SA7-SS-0.0-0.5 SL -025-SA7-SS-0.0-0.5 SL -027-SA7-SS-0.0-0.5 SL -028-SA7-SB-4.0-5.0 SL -030-SA7-SB-4.0-5.0 SL -062-SA7-SS-0.0-0.5 SL -066-SA7-SS-0.0-0.5 SL -067-SA7-SS-0.0-0.5 SL -068-SA7-SS-0.0-0.5 SL -069-SA7-SS-0.0-0.5 SL -073-SA7-SB-4.0-5.0 SL -076-SA7-SB-2.5-3.5 SL -089-SA7-SS-0.0-0.5 SL -139-SA7-SS-0.0-0.5 SL -140-SA7-SS-0.0-0.5 SL -152-SA7-SS-0.0-0.5 SL -153-SA7-SS-0.0-0.5 SL -181-SA7-SS-0.0-0.5)	MERCURY	200	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: DE252_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12703AQ240452A (DUP05 -SA7-QC-092211 SL -015-SA7-SS-0.0-0.5 SL -019-SA7-SS-0.0-0.5 SL -025-SA7-SS-0.0-0.5 SL -027-SA7-SS-0.0-0.5 SL -062-SA7-SS-0.0-0.5 SL -066-SA7-SS-0.0-0.5 SL -067-SA7-SS-0.0-0.5 SL -068-SA7-SS-0.0-0.5 SL -069-SA7-SS-0.0-0.5 SL -089-SA7-SS-0.0-0.5 SL -139-SA7-SS-0.0-0.5 SL -140-SA7-SS-0.0-0.5 SL -152-SA7-SS-0.0-0.5 SL -153-SA7-SS-0.0-0.5 SL -181-SA7-SS-0.0-0.5)	MCPA	138	-	60.00-130.00	-	MCPA	J (all detects)

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12847AQ241845A ()	METHOXYCHLOR	143	-	59.00-125.00	-	METHOXYCHLOR	No Associated Samples

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P26926CQ220954A (DUP05 -SA7-QC-092211 SL -015-SA7-SS-0.0-0.5 SL -019-SA7-SS-0.0-0.5 SL -025-SA7-SS-0.0-0.5 SL -027-SA7-SS-0.0-0.5 SL -028-SA7-SB-4.0-5.0 SL -030-SA7-SB-4.0-5.0 SL -062-SA7-SS-0.0-0.5 SL -066-SA7-SS-0.0-0.5 SL -067-SA7-SS-0.0-0.5 SL -068-SA7-SS-0.0-0.5 SL -069-SA7-SS-0.0-0.5 SL -073-SA7-SB-4.0-5.0 SL -076-SA7-SB-2.5-3.5 SL -089-SA7-SS-0.0-0.5 SL -139-SA7-SS-0.0-0.5 SL -140-SA7-SS-0.0-0.5 SL -152-SA7-SS-0.0-0.5 SL -153-SA7-SS-0.0-0.5 SL -181-SA7-SS-0.0-0.5)	VANADIUM	124	-	80.00-120.00	-	VANADIUM	No Qual, SRM Within QC Limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: DE252_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P26908HQ220031 (DUP05-SA7-QC-092211 SL -015-SA7-SS-0.0-0.5 SL -019-SA7-SS-0.0-0.5 SL -025-SA7-SS-0.0-0.5 SL -027-SA7-SS-0.0-0.5 SL -028-SA7-SB-4.0-5.0 SL -030-SA7-SB-4.0-5.0 SL -062-SA7-SS-0.0-0.5 SL -066-SA7-SS-0.0-0.5 SL -067-SA7-SS-0.0-0.5 SL -068-SA7-SS-0.0-0.5 SL -069-SA7-SS-0.0-0.5 SL -073-SA7-SB-4.0-5.0 SL -076-SA7-SB-2.5-3.5 SL -089-SA7-SS-0.0-0.5 SL -139-SA7-SS-0.0-0.5 SL -140-SA7-SS-0.0-0.5 SL -152-SA7-SS-0.0-0.5 SL -153-SA7-SS-0.0-0.5 SL -181-SA7-SS-0.0-0.5)	ALUMINUM MAGNESIUM POTASSIUM	157 132 128	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM MAGNESIUM POTASSIUM	No Qual, SRM Within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: DE252_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-015-SA7-SS-0.0-0.5	DECACHLOROBIPHENYL	122	45.00-120.00	All Target Analytes	J (all detects)
SL-066-SA7-SS-0.0-0.5	DECACHLOROBIPHENYL	123	45.00-120.00	All Target Analytes	J(all detects)

Method: 8270C SIM
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-015-SA7-SS-0.0-0.5	Nitrobenzene-d5	147	40.00-130.00	No Affected Compounds	J(all detects)
SL-068-SA7-SS-0.0-0.5	Nitrobenzene-d5	188	40.00-130.00	No Affected Compounds	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-015-SA7-SS-0.0-0.5	DUP05-SA7-QC-092211			
MOISTURE	1.3	1.1	17		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-015-SA7-SS-0.0-0.5	DUP05-SA7-QC-092211			
FLUORIDE	4.0	4.0	0	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-015-SA7-SS-0.0-0.5	DUP05-SA7-QC-092211			
ALUMINUM	14600	16400	12	50.00	No Qualifiers Applied
BORON	8.65	7.36	16	50.00	
CALCIUM	2810	2950	5	50.00	
IRON	20900	20300	3	50.00	
LITHIUM	23.1	25.1	8	50.00	
MAGNESIUM	4660	5030	8	50.00	
MANGANESE	267	273	2	50.00	
PHOSPHORUS	303	297	2	50.00	
POTASSIUM	2460	2700	9	50.00	
SODIUM	88.2	96.1	9	50.00	
STRONTIUM	15.4	16.4	6	50.00	
TIN	2.90	2.99	3	50.00	
TITANIUM	1250	1300	4	50.00	
Zirconium	2.73	3.01	10	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-015-SA7-SS-0.0-0.5	DUP05-SA7-QC-092211			
ANTIMONY	0.146	0.106	32	50.00	No Qualifiers Applied
ARSENIC	4.72	4.97	5	50.00	
BARIUM	87.7	103	16	50.00	
BERYLLIUM	0.644	0.590	9	50.00	
CADMIUM	0.233	0.191	20	50.00	
CHROMIUM	21.5	19.6	9	50.00	
COBALT	5.90	6.15	4	50.00	
COPPER	8.45	8.30	2	50.00	
LEAD	9.31	8.16	13	50.00	
MOLYBDENUM	0.540	0.529	2	50.00	
NICKEL	11.6	11.3	3	50.00	
SELENIUM	0.169	0.172	2	50.00	
THALLIUM	0.270	0.281	4	50.00	
VANADIUM	39.2	38.5	2	50.00	
ZINC	59.8	60.2	1	50.00	
SILVER	0.0743	0.0407	58	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-015-SA7-SS-0.0-0.5	DUP05-SA7-QC-092211			
HEXAVALENT CHROMIUM	0.98 U	0.22	200	50.00	J(all detects) UJ(all non-detects)

Method: 7471A

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-015-SA7-SS-0.0-0.5	DUP05-SA7-QC-092211			
MERCURY	0.0071	0.0144	68	50.00	J(all detects)

Method: 8015B

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-015-SA7-SS-0.0-0.5	DUP05-SA7-QC-092211			
METHANOL	510 U	250	200	50.00	J(all detects) UJ(all non-detects)

Method: 8015M

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-015-SA7-SS-0.0-0.5	DUP05-SA7-QC-092211			
EFH (C30-C40)	17	11	43	50.00	No Qualifiers Applied
EFH (C15-C20)	0.79	1.2 U	200	50.00	J(all detects)
EFH (C21-C30)	6.8	3.5	64	50.00	UJ(all non-detects)

Method: 8081A

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-015-SA7-SS-0.0-0.5	DUP05-SA7-QC-092211			
4,4'-DDE	7.5	7.0	7	50.00	No Qualifiers Applied
4,4'-DDT	0.93	0.90	3	50.00	

Method: 8082

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-015-SA7-SS-0.0-0.5	DUP05-SA7-QC-092211			
AROCLOR 1254	2.0	1.6	22	50.00	No Qualifiers Applied
AROCLOR 1260	1.9	1.7	11	50.00	
Aroclor 5460	3.7	2.6	35	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: PrepDE252_v1

eQAPP Name: CDM_SSFL_110509

Method: 8151A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-015-SA7-SS-0.0-0.5	DUP05-SA7-QC-092211			
DICAMBA	0.69	1.2 U	200	50.00	J(all detects)
MCPA	1900	650	98	50.00	UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-015-SA7-SS-0.0-0.5	DUP05-SA7-QC-092211			
BENZO(B)FLUORANTHENE	1.7 U	0.77	200	50.00	J(all detects) UJ(all non-detects)
Butylbenzylphthalate	18 U	29	200	50.00	
CHRYSENE	1.7 U	0.35	200	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-015-SA7-SS-0.0-0.5	DUP05-SA7-QC-092211			
PH	7.00	6.99	0	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: DE252_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA7-QC-092211	SODIUM TIN Zirconium	J	96.1	99.1	PQL	mg/Kg	J (all detects)
		J	2.99	9.91	PQL	mg/Kg	
		J	3.01	4.96	PQL	mg/Kg	
SL-015-SA7-SS-0.0-0.5	SODIUM TIN Zirconium	J	88.2	101	PQL	mg/Kg	J (all detects)
		J	2.90	10.1	PQL	mg/Kg	
		J	2.73	5.07	PQL	mg/Kg	
SL-019-SA7-SS-0.0-0.5	SODIUM TIN Zirconium	J	66.4	100	PQL	mg/Kg	J (all detects)
		J	2.87	10.0	PQL	mg/Kg	
		J	4.19	5.00	PQL	mg/Kg	
SL-025-SA7-SS-0.0-0.5	SODIUM TIN Zirconium	J	85.1	101	PQL	mg/Kg	J (all detects)
		J	2.91	10.1	PQL	mg/Kg	
		J	3.10	5.03	PQL	mg/Kg	
SL-027-SA7-SS-0.0-0.5	SODIUM TIN	J	74.2	98.8	PQL	mg/Kg	J (all detects)
		J	3.07	9.88	PQL	mg/Kg	
SL-028-SA7-SB-4.0-5.0	SODIUM TIN Zirconium	J	96.4	106	PQL	mg/Kg	J (all detects)
		J	3.06	10.6	PQL	mg/Kg	
		J	3.48	5.32	PQL	mg/Kg	
SL-030-SA7-SB-4.0-5.0	SODIUM TIN Zirconium	J	70.5	105	PQL	mg/Kg	J (all detects)
		J	2.83	10.5	PQL	mg/Kg	
		J	1.71	5.24	PQL	mg/Kg	
SL-062-SA7-SS-0.0-0.5	SODIUM TIN Zirconium	J	69.3	100	PQL	mg/Kg	J (all detects)
		J	3.10	10.0	PQL	mg/Kg	
		J	2.49	5.01	PQL	mg/Kg	
SL-066-SA7-SS-0.0-0.5	SODIUM TIN Zirconium	J	69.4	99.0	PQL	mg/Kg	J (all detects)
		J	2.88	9.90	PQL	mg/Kg	
		J	3.07	4.95	PQL	mg/Kg	
SL-067-SA7-SS-0.0-0.5	TIN Zirconium	J	3.11	10.6	PQL	mg/Kg	J (all detects)
		J	3.17	5.32	PQL	mg/Kg	
SL-068-SA7-SS-0.0-0.5	SODIUM TIN Zirconium	J	85.4	101	PQL	mg/Kg	J (all detects)
		J	3.02	10.1	PQL	mg/Kg	
		J	3.17	5.06	PQL	mg/Kg	
SL-069-SA7-SS-0.0-0.5	SODIUM TIN Zirconium	J	74.2	97.3	PQL	mg/Kg	J (all detects)
		J	2.80	9.73	PQL	mg/Kg	
		J	2.86	4.87	PQL	mg/Kg	
SL-073-SA7-SB-4.0-5.0	SODIUM TIN Zirconium	J	68.9	103	PQL	mg/Kg	J (all detects)
		J	2.85	10.3	PQL	mg/Kg	
		J	2.18	5.17	PQL	mg/Kg	
SL-076-SA7-SB-2.5-3.5	BORON SODIUM TIN Zirconium	J	25.6	26.2	PQL	mg/Kg	J (all detects)
		J	72.8	105	PQL	mg/Kg	
		J	3.19	10.5	PQL	mg/Kg	
		J	3.86	5.24	PQL	mg/Kg	
SL-089-SA7-SS-0.0-0.5	TIN Zirconium	J	2.59	10.4	PQL	mg/Kg	J (all detects)
		J	2.87	5.22	PQL	mg/Kg	
SL-139-SA7-SS-0.0-0.5	SODIUM TIN Zirconium	J	74.9	100	PQL	mg/Kg	J (all detects)
		J	3.02	10.0	PQL	mg/Kg	
		J	3.30	5.02	PQL	mg/Kg	
SL-140-SA7-SS-0.0-0.5	SODIUM TIN Zirconium	J	66.8	99.5	PQL	mg/Kg	J (all detects)
		J	2.85	9.95	PQL	mg/Kg	
		J	2.85	4.98	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: DE252_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-152-SA7-SS-0.0-0.5	TIN	J	3.05	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.99	5.09	PQL	mg/Kg	
SL-153-SA7-SS-0.0-0.5	TIN	J	2.58	9.78	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.32	4.89	PQL	mg/Kg	
SL-181-SA7-SS-0.0-0.5	TIN	J	2.74	10.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.05	5.02	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA7-QC-092211	ANTIMONY	J	0.106	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.172	0.397	PQL	mg/Kg	
	SILVER	J	0.0407	0.0991	PQL	mg/Kg	
SL-015-SA7-SS-0.0-0.5	ANTIMONY	J	0.146	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.169	0.397	PQL	mg/Kg	
	SILVER	J	0.0743	0.0993	PQL	mg/Kg	
SL-019-SA7-SS-0.0-0.5	ANTIMONY	J	0.159	0.196	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.212	0.392	PQL	mg/Kg	
	SILVER	J	0.0543	0.0981	PQL	mg/Kg	
SL-025-SA7-SS-0.0-0.5	ANTIMONY	J	0.0972	0.203	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.138	0.407	PQL	mg/Kg	
	SILVER	J	0.0455	0.102	PQL	mg/Kg	
SL-027-SA7-SS-0.0-0.5	ANTIMONY	J	0.142	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.138	0.399	PQL	mg/Kg	
	SILVER	J	0.0562	0.0998	PQL	mg/Kg	
SL-028-SA7-SB-4.0-5.0	ANTIMONY	J	0.109	0.217	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0786	0.108	PQL	mg/Kg	
	SELENIUM	J	0.0983	0.434	PQL	mg/Kg	
	SILVER	J	0.0478	0.108	PQL	mg/Kg	
SL-030-SA7-SB-4.0-5.0	ANTIMONY	J	0.0880	0.210	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.186	0.419	PQL	mg/Kg	
	SILVER	J	0.0350	0.105	PQL	mg/Kg	
SL-062-SA7-SS-0.0-0.5	SELENIUM	J	0.112	0.405	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0674	0.101	PQL	mg/Kg	
SL-066-SA7-SS-0.0-0.5	ANTIMONY	J	0.188	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.220	0.404	PQL	mg/Kg	
	SILVER	J	0.0505	0.101	PQL	mg/Kg	
SL-067-SA7-SS-0.0-0.5	ANTIMONY	J	0.211	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.150	0.426	PQL	mg/Kg	
	SILVER	J	0.0546	0.106	PQL	mg/Kg	
SL-068-SA7-SS-0.0-0.5	ANTIMONY	J	0.151	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.142	0.400	PQL	mg/Kg	
	SILVER	J	0.0464	0.100	PQL	mg/Kg	
SL-069-SA7-SS-0.0-0.5	ANTIMONY	J	0.189	0.197	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.205	0.393	PQL	mg/Kg	
	SILVER	J	0.0410	0.0983	PQL	mg/Kg	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: DE252_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-073-SA7-SB-4.0-5.0	SELENIUM	J	0.131	0.413	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0217	0.103	PQL	mg/Kg	
SL-076-SA7-SB-2.5-3.5	SELENIUM	J	0.198	0.420	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0529	0.105	PQL	mg/Kg	
SL-089-SA7-SS-0.0-0.5	SELENIUM	J	0.166	0.417	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0331	0.104	PQL	mg/Kg	
SL-139-SA7-SS-0.0-0.5	ANTIMONY	J	0.130	0.197	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.165	0.393	PQL	mg/Kg	
	SILVER	J	0.0304	0.0984	PQL	mg/Kg	
SL-140-SA7-SS-0.0-0.5	ANTIMONY	J	0.197	0.201	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.180	0.402	PQL	mg/Kg	
	SILVER	J	0.0373	0.101	PQL	mg/Kg	
SL-152-SA7-SS-0.0-0.5	ANTIMONY	J	0.190	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.174	0.399	PQL	mg/Kg	
	SILVER	J	0.0376	0.0998	PQL	mg/Kg	
SL-153-SA7-SS-0.0-0.5	ANTIMONY	J	0.137	0.196	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0883	0.0978	PQL	mg/Kg	
	SELENIUM	J	0.108	0.391	PQL	mg/Kg	
	SILVER	J	0.0214	0.0978	PQL	mg/Kg	
SL-181-SA7-SS-0.0-0.5	SELENIUM	J	0.206	0.406	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0380	0.101	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA7-QC-092211	HEXAVALENT CHROMIUM	J	0.22	1.0	PQL	mg/Kg	J (all detects)
SL-027-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.35	0.98	PQL	mg/Kg	J (all detects)
SL-030-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.26	1.0	PQL	mg/Kg	J (all detects)
SL-068-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.52	1.0	PQL	mg/Kg	J (all detects)
SL-069-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.20	1.0	PQL	mg/Kg	J (all detects)
SL-140-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.29	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA7-QC-092211	MERCURY	J	0.0144	0.100	PQL	mg/Kg	J (all detects)
SL-015-SA7-SS-0.0-0.5	MERCURY	J	0.0071	0.0973	PQL	mg/Kg	J (all detects)
SL-019-SA7-SS-0.0-0.5	MERCURY	J	0.0110	0.0999	PQL	mg/Kg	J (all detects)
SL-025-SA7-SS-0.0-0.5	MERCURY	J	0.0224	0.0976	PQL	mg/Kg	J (all detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: DE252_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-027-SA7-SS-0.0-0.5	MERCURY	J	0.0130	0.0991	PQL	mg/Kg	J (all detects)
SL-062-SA7-SS-0.0-0.5	MERCURY	J	0.0268	0.100	PQL	mg/Kg	J (all detects)
SL-066-SA7-SS-0.0-0.5	MERCURY	J	0.0124	0.0976	PQL	mg/Kg	J (all detects)
SL-067-SA7-SS-0.0-0.5	MERCURY	J	0.0159	0.104	PQL	mg/Kg	J (all detects)
SL-068-SA7-SS-0.0-0.5	MERCURY	J	0.0227	0.100	PQL	mg/Kg	J (all detects)
SL-069-SA7-SS-0.0-0.5	MERCURY	J	0.0080	0.100	PQL	mg/Kg	J (all detects)
SL-076-SA7-SB-2.5-3.5	MERCURY	J	0.0074	0.104	PQL	mg/Kg	J (all detects)
SL-089-SA7-SS-0.0-0.5	MERCURY	J	0.0115	0.0984	PQL	mg/Kg	J (all detects)
SL-139-SA7-SS-0.0-0.5	MERCURY	J	0.0089	0.0992	PQL	mg/Kg	J (all detects)
SL-140-SA7-SS-0.0-0.5	MERCURY	J	0.0297	0.0995	PQL	mg/Kg	J (all detects)
SL-152-SA7-SS-0.0-0.5	MERCURY	J	0.0088	0.0997	PQL	mg/Kg	J (all detects)
SL-181-SA7-SS-0.0-0.5	MERCURY	J	0.0147	0.0978	PQL	mg/Kg	J (all detects)

Method: 8015B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA7-QC-092211	METHANOL	J	250	510	PQL	ug/Kg	J (all detects)
SL-019-SA7-SS-0.0-0.5	METHANOL	J	440	510	PQL	ug/Kg	J (all detects)
SL-066-SA7-SS-0.0-0.5	METHANOL	J	150	510	PQL	ug/Kg	J (all detects)
SL-067-SA7-SS-0.0-0.5	METHANOL	J	380	1100	PQL	ug/Kg	J (all detects)
SL-152-SA7-SS-0.0-0.5	METHANOL	J	210	510	PQL	ug/Kg	J (all detects)
SL-153-SA7-SS-0.0-0.5	ETHANOL	J	170	500	PQL	ug/Kg	J (all detects)
	METHANOL	J	220	500	PQL	ug/Kg	J (all detects)
SL-181-SA7-SS-0.0-0.5	METHANOL	J	110	510	PQL	ug/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-015-SA7-SS-0.0-0.5	EFH (C15-C20)	J	0.79	1.2	PQL	mg/Kg	J (all detects)
SL-019-SA7-SS-0.0-0.5	EFH (C15-C20)	J	0.48	1.2	PQL	mg/Kg	J (all detects)
SL-066-SA7-SS-0.0-0.5	EFH (C8-C11)	J	0.51	1.2	PQL	mg/Kg	J (all detects)
SL-067-SA7-SS-0.0-0.5	EFH (C15-C20)	J	16	32	PQL	mg/Kg	J (all detects)
SL-069-SA7-SS-0.0-0.5	EFH (C15-C20)	J	5.2	6.1	PQL	mg/Kg	J (all detects)
	EFH (C8-C11)	J	2.1	6.1	PQL	mg/Kg	J (all detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: DE252_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-073-SA7-SB-4.0-5.0	EFH (C15-C20)	J	0.43	1.3	PQL	mg/Kg	J (all detects)
SL-139-SA7-SS-0.0-0.5	EFH (C15-C20)	J	0.81	1.2	PQL	mg/Kg	J (all detects)
SL-140-SA7-SS-0.0-0.5	EFH (C15-C20)	J	0.93	1.2	PQL	mg/Kg	J (all detects)
SL-152-SA7-SS-0.0-0.5	EFH (C15-C20) EFH (C8-C11)	J J	2.3 3.5	6.1 6.1	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-153-SA7-SS-0.0-0.5	EFH (C8-C11)	J	2.0	6.0	PQL	mg/Kg	J (all detects)
SL-181-SA7-SS-0.0-0.5	EFH (C15-C20)	J	3.9	6.1	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-025-SA7-SS-0.0-0.5	TOXAPHENE	J	21	34	PQL	ug/Kg	J (all detects)
SL-027-SA7-SS-0.0-0.5	Chlordane	J	1.2	3.4	PQL	ug/Kg	J (all detects)
SL-062-SA7-SS-0.0-0.5	ALPHA-BHC Chlordane	J J	0.14 3.1	0.34 7.0	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-066-SA7-SS-0.0-0.5	Chlordane DELTA-BHC	J J	2.1 0.096	3.4 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-067-SA7-SS-0.0-0.5	Chlordane HEPTACHLOR	J J	3.0 0.14	3.6 0.18	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-068-SA7-SS-0.0-0.5	gamma-BHC (Lindane) METHOXYCHLOR	J J	0.043 1.1	0.17 1.7	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-069-SA7-SS-0.0-0.5	ENDRIN ALDEHYDE	J	0.18	0.34	PQL	ug/Kg	J (all detects)
SL-140-SA7-SS-0.0-0.5	4,4'-DDE	J	0.32	0.35	PQL	ug/Kg	J (all detects)
SL-152-SA7-SS-0.0-0.5	DELTA-BHC METHOXYCHLOR TOXAPHENE	J J J	0.15 0.53 6.4	0.17 1.7 6.7	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-153-SA7-SS-0.0-0.5	4,4'-DDE 4,4'-DDT ENDRIN ALDEHYDE	J J J	0.15 0.12 0.18	0.34 0.34 0.34	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-181-SA7-SS-0.0-0.5	4,4'-DDT	J	0.24	0.35	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA7-QC-092211	AROCLOR 1254 Aroclor 5460	J J	1.6 2.6	1.7 3.3	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-019-SA7-SS-0.0-0.5	AROCLOR 1260 Aroclor 5460	J J	1.0 1.4	1.7 3.3	PQL PQL	ug/Kg ug/Kg	J (all detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: DE252_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-025-SA7-SS-0.0-0.5	AROCLOR 1242	J	4.2	17	PQL	ug/Kg	J (all detects)
SL-066-SA7-SS-0.0-0.5	AROCLOR 1254 Aroclor 5460	J	0.90	1.7	PQL	ug/Kg	J (all detects)
		J	2.6	3.3	PQL	ug/Kg	
SL-067-SA7-SS-0.0-0.5	Aroclor 5460	J	3.1	3.5	PQL	ug/Kg	J (all detects)
SL-069-SA7-SS-0.0-0.5	AROCLOR 1254	J	0.58	1.7	PQL	ug/Kg	J (all detects)
SL-073-SA7-SB-4.0-5.0	AROCLOR 1260	J	0.86	1.8	PQL	ug/Kg	J (all detects)
SL-139-SA7-SS-0.0-0.5	AROCLOR 1254 Aroclor 5460	J	1.5	1.7	PQL	ug/Kg	J (all detects)
		J	1.6	3.3	PQL	ug/Kg	
SL-140-SA7-SS-0.0-0.5	AROCLOR 1260 Aroclor 5460	J	0.82	1.7	PQL	ug/Kg	J (all detects)
		J	2.0	3.4	PQL	ug/Kg	
SL-181-SA7-SS-0.0-0.5	AROCLOR 1260 Aroclor 5460	J	1.6	1.7	PQL	ug/Kg	J (all detects)
		J	1.6	3.4	PQL	ug/Kg	

Method: 8151A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-015-SA7-SS-0.0-0.5	DICAMBA	J	0.69	1.2	PQL	ug/Kg	J (all detects)
SL-089-SA7-SS-0.0-0.5	2,4-D DICAMBA	J	1.8	3.8	PQL	ug/Kg	J (all detects)
		J	0.75	1.3	PQL	ug/Kg	
SL-140-SA7-SS-0.0-0.5	DICAMBA	J	0.68	1.2	PQL	ug/Kg	J (all detects)
SL-153-SA7-SS-0.0-0.5	DICAMBA	J	0.41	1.2	PQL	ug/Kg	J (all detects)
SL-181-SA7-SS-0.0-0.5	DICAMBA	J	0.80	1.2	PQL	ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA7-QC-092211	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	330	PQL	ug/Kg	J (all detects)
SL-140-SA7-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	330	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA7-QC-092211	BENZO(B)FLUORANTHENE CHRYSENE	J	0.77	1.7	PQL	ug/Kg	J (all detects)
		J	0.35	1.7	PQL	ug/Kg	
SL-015-SA7-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.9	18	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: DE252_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-019-SA7-SS-0.0-0.5	BENZO(A)PYRENE	J	0.75	1.7	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.1	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.5	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.9	18	PQL	ug/Kg	
	CHRYSENE	J	0.89	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	1.1	1.7	PQL	ug/Kg	
SL-025-SA7-SS-0.0-0.5	PYRENE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	4.6	8.4	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	3.9	8.4	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	30	90	PQL	ug/Kg	
	CHRYSENE	J	8.0	8.4	PQL	ug/Kg	
	FLUORANTHENE	J	7.4	8.4	PQL	ug/Kg	
SL-027-SA7-SS-0.0-0.5	PYRENE	J	7.0	8.4	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.97	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.69	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	6.3	18	PQL	ug/Kg	
	CHRYSENE	J	1.4	1.7	PQL	ug/Kg	
	Di-n-octylphthalate	J	9.2	18	PQL	ug/Kg	
SL-030-SA7-SB-4.0-5.0	PHENANTHRENE	J	1.2	1.7	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	9.7	19	PQL	ug/Kg	
SL-062-SA7-SS-0.0-0.5	Di-n-octylphthalate	J	9.7	19	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	6.4	8.5	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	47	92	PQL	ug/Kg	
	CHRYSENE	J	4.7	8.5	PQL	ug/Kg	
	FLUORANTHENE	J	5.6	8.5	PQL	ug/Kg	
	NAPHTHALENE	J	4.3	8.5	PQL	ug/Kg	
	PHENANTHRENE	J	4.3	8.5	PQL	ug/Kg	
PYRENE	J	5.3	8.5	PQL	ug/Kg		
SL-066-SA7-SS-0.0-0.5	CHRYSENE	J	2.7	8.3	PQL	ug/Kg	J (all detects)
SL-067-SA7-SS-0.0-0.5	BENZO(K)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	7.0	19	PQL	ug/Kg	
	CHRYSENE	J	0.92	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	0.98	1.8	PQL	ug/Kg	
	PYRENE	J	1.0	1.8	PQL	ug/Kg	
SL-068-SA7-SS-0.0-0.5	BENZO(A)PYRENE	J	3.7	8.4	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	7.4	8.4	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	56	90	PQL	ug/Kg	
	Butylbenzylphthalate	J	60	90	PQL	ug/Kg	
	CHRYSENE	J	7.1	8.4	PQL	ug/Kg	
	FLUORANTHENE	J	7.7	8.4	PQL	ug/Kg	
	PHENANTHRENE	J	3.4	8.4	PQL	ug/Kg	
	PYRENE	J	5.2	8.4	PQL	ug/Kg	
SL-069-SA7-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	0.84	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.4	18	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.4	18	PQL	ug/Kg	
SL-073-SA7-SB-4.0-5.0	Di-n-octylphthalate	J	16	19	PQL	ug/Kg	J (all detects)
SL-076-SA7-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	19	PQL	ug/Kg	J (all detects)
SL-089-SA7-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.3	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.50	1.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE252

Laboratory: LL

EDD Filename: DE252_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-139-SA7-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.4	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.6	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	1.7	PQL	ug/Kg	
SL-140-SA7-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.81	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.5	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.0	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.6	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.71	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.6	1.7	PQL	ug/Kg	
SL-152-SA7-SS-0.0-0.5	ANTHRACENE	J	0.60	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.7	18	PQL	ug/Kg	
	FLUORENE	J	0.74	1.7	PQL	ug/Kg	
SL-153-SA7-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	18	PQL	ug/Kg	J (all detects)

Method: 8315A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-089-SA7-SS-0.0-0.5	FORMALDEHYDE	J	790	1600	PQL	ug/Kg	J (all detects)
SL-152-SA7-SS-0.0-0.5	FORMALDEHYDE	J	710	1500	PQL	ug/Kg	J (all detects)
SL-153-SA7-SS-0.0-0.5	FORMALDEHYDE	J	1100	1500	PQL	ug/Kg	J (all detects)
SL-181-SA7-SS-0.0-0.5	FORMALDEHYDE	J	940	1500	PQL	ug/Kg	J (all detects)

LDC #: 26859V4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE252

ADR

Laboratory: Lancaster Laboratories

Date: 12/30/11

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	No found by 2UB/CEB
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Ti, Zn 74X
VII.	Duplicate Sample Analysis	SW	Hg, Se, Zr 45X
VIII.	Laboratory Control Samples (LCS)	NA	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Cr J/WJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV.	Field Blanks	✓	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SL-015-SA7-SS-0.0-0.5	11	SL-068-SA7-SS-0.0-0.5	21	SL-015-SA7-SS-0.0-0.5MS	31	
2	SL-139-SA7-SS-0.0-0.5	12	SL-069-SA7-SS-0.0-0.5	22	SL-015-SA7-SS-0.0-0.5MSD	32	
3	SL-140-SA7-SS-0.0-0.5	13	SL-089-SA7-SS-0.0-0.5	23	SL-015-SA7-SS-0.0-0.5DUP	33	
4	DUP05-SA7-QC-092211	14	SL-152-SA7-SS-0.0-0.5	24		34	
5	SL-019-SA7-SS-0.0-0.5	15	SL-153-SA7-SS-0.0-0.5	25		35	
6	SL-025-SA7-SS-0.0-0.5	16	SL-181-SA7-SS-0.0-0.5	26		36	
7	SL-027-SA7-SS-0.0-0.5	17	SL-030-SA7-SB-4.0-2.0	27		37	
8	SL-062-SA7-SS-0.0-0.5	18	SL-073-SA7-SB-4.0-5.0	28		38	
9	SL-066-SA7-SS-0.0-0.5	19	SL-076-SA7-SB-2.5-3.5	29		39	
10	SL-067-SA7-SS-0.0-0.5	20	SL-028-SA7-SB-4.0-5.0	30		40	

Notes: _____



QUALITY ASSURANCE SUMMARY
 FORM 5A (MS/MSD)
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE
 SDG No.: DE252
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6418446BKG Matrix Spike Lab Sample ID: 6418447MS Matrix Spike Duplicate Lab Sample ID: 6418448MSD
 & Solids for Sample: 98.7
 Batch Id(s): P26908H, P26926C, P27808B, P26911E

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MSD Spike Added	Units	MS		MSD		Control Limit	
		Result	C	Result	C	Result	C			\$R	Q	\$R	Q	\$R	RPD
Aluminum		14586.1003		17758.7157		17986.0007		196.7323	194.8406	MG/KG	1613	1745		74X	20P
Antimony	121	0.1464	B	0.8111		0.9121		1.2038	1.2158	MG/KG	55 N	63 N	12	75 - 125	20MS
Arsenic	75	4.7222		8.5187		8.0182		2.0063	2.0263	MG/KG	189 N	163 N	6	75 - 125	20MS
Barium	137	87.6691		116.2438		113.9412		10.0314	10.1317	MG/KG	285	259	2	74X	20MS
Beryllium	9	0.6439		1.6995		1.5968		0.8025	0.8105	MG/KG	132 N	118	6	75 - 125	20MS
Boron		8.6494		194.8879		194.6711		196.7323	194.8406	MG/KG	95	95	0	84 - 115	20P
Cadmium	111	0.2328		1.5966		1.5429		1.0031	1.0132	MG/KG	136 N	129 N	3	75 - 125	20MS
Calcium		2805.6018		3278.6595		3365.5330		393.4645	389.6812	MG/KG	120	144	3	74X	20P
Chromium	52	21.4753		36.4140		34.6099		10.0314	10.1317	MG/KG	149 N	130 N	5	75 - 125	20MS
Cobalt	59	5.9042		76.4794		72.8470		50.1570	50.6586	MG/KG	141 N	132 N	5	75 - 125	20MS
Copper	63	8.4510		23.6340		22.8166		10.0314	10.1317	MG/KG	151 N	142 N	4	75 - 125	20MS
Iron		20876.1383		20802.1355		20684.6236		98.3661	99.3305	MG/KG	-75	-193	1	74X	20P
Lead	208	9.3073		14.4853		13.7629		3.0094	3.0395	MG/KG	172 N	147 N	5	75 - 125	20MS
Lithium		23.0618		119.1833		118.4748		98.3661	97.4203	MG/KG	98	98	1	82 - 114	20P
Magnesium		4664.1540		5072.9778		5180.5374		196.7323	194.8406	MG/KG	208	265	2	74X	20P
Manganese		266.9504		308.9012		314.2964		49.1831	48.7102	MG/KG	85	97	2	74X	20P
Mercury		0.0071	B	0.1773		0.1718		0.1657	0.1605	MG/KG	103	103	3	65 - 135	20CV
Molybdenum	98	0.5398		14.6759		14.0871		10.0314	10.1317	MG/KG	141 N	134 N	4	75 - 125	20MS
Nickel	60	11.6117		27.5663		26.4640		10.0314	10.1317	MG/KG	159 N	147 N	4	75 - 125	20MS
Phosphorus		303.0942		381.7068		397.2878		98.3661	97.4203	MG/KG	80	97	4	75 - 125	20P
Potassium		2462.0253		3703.4556		3788.1040		983.6614	974.2031	MG/KG	126 N	136 N	2	75 - 125	20P
Selenium	78	0.1690	B	2.7887		2.7396		2.0063	2.0263	MG/KG	131 N	127 N	2	75 - 125	20MS
Silver	107	0.0743	B	14.0139		13.4083		10.0314	10.1317	MG/KG	139 N	132 N	4	75 - 125	20MS
Sodium		88.2421	B	1029.5344		1018.2985		983.6614	974.2031	MG/KG	96	95	1	75 - 125	20P
Strontium		15.4012		110.5163		110.0129		98.3661	97.4203	MG/KG	97	97	0	75 - 115	20P
Thallium	203	0.2696		0.8968		0.8725		0.4013	0.4053	MG/KG	156 N	149 N	3	75 - 125	20MS
Tin		2.8997	B	352.9062		349.2518		393.4645	389.6812	MG/KG	89	89	1	80 - 110	20P
Titanium		1250.5805		1459.6010		1496.6897		98.3661	97.4203	MG/KG	212	253	3	74X	20P
Vanadium	51	39.1760		59.2254		55.8055		10.0314	10.1317	MG/KG	200 N	164 N	6	75 - 125	20MS
Zinc	66	59.8168		84.7653		80.5471		10.0314	10.1317	MG/KG	249	205	5	74X	20MS
Zirconium	90	2.7275	B	95.5912		96.0613		98.3661	97.4203	MG/KG	94	96	0	75 - 125	20P

METHODS: M
 P = ICP Atomic Emission Spectrometer CV = Cold Vapor
 MS = ICP Mass Spectrometry AF = Cold Vapor Atomic Fluorescence
 CONCENTRATION QUALIFIERS:
 U = Below MDL, B = Below LOQ
 FLAGS:
 N = Matrix Spike OOS, * = Duplicate OOS



QUALITY ASSURANCE SUMMARY

FORM 6

DUPLICATES

SDG No.: DE252

Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6418446BKG

Duplicate Lab Sample ID: 6418449DUP

% Solids for Duplicate: 98.6

% Solids for Sample: 98.7

Batch ID(s): P26908H, P26926C, P27808B, P26911E

Concentration Units: MG/KG

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			14586.1003		14589.9425		0		P
Antimony	121		0.1464	B	0.1686	B	14		MS
Arsenic	75		4.7222		5.7325		19		MS
Barium	137		87.6691		105.9777		19		MS
Beryllium	9		0.6439		0.7485		15		MS
Boron		5.1	8.6494		8.7353		1		P
Cadmium	111	0.1	0.2328		0.2367		2		MS
Calcium			2805.6018		2749.4197		2		P
Chromium	52		21.4753		25.3698		17		MS
Cobalt	59		5.9042		7.8480		28	*	MS
Copper	63		8.4510		9.8460		15		MS
Iron			20876.1383		19490.8064		7		P
Lead	208		9.3073		10.4478		12		MS
Lithium			23.0618		23.1485		0		P
Magnesium			4664.1540		4660.2295		0		P
Manganese			266.9504		267.5384		0		P
Mercury			0.0071	B	0.0072	U	200		CV
Molybdenum	98		0.5398		0.6446		18		MS
Nickel	60		11.6117		14.2472		20		MS
Phosphorus			303.0942		289.3346		5		P
Potassium			2462.0253		2527.0727		3		P
Selenium	78		0.1690	B	0.2239	B	28		MS
Silver	107		0.0743	B	0.0641	B	15		MS
Sodium			88.2421	B	89.7840	B	2		P
Strontium			15.4012		15.4754		0		P
Thallium	203	0.1	0.2696		0.3289		20		MS
Tin			2.8997	B	2.9151	B	1		P
Titanium			1250.5805		1221.2054		2		P
Vanadium	51		39.1760		48.9159		22	*	MS
Zinc	66		59.8168		75.1165		23	*	MS
Zirconium			2.7275	B	3.4127	B	22		P

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

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METHODS: P = ICP Atomic Emission Spectrometer MS = ICP Mass Spectrometry CV = Cold Vapor AF = Cold Vapor Atomic Fluorescence	CONCENTRATION QUALIFIERS: U = Below MDL B = Below LOQ FLAGS: * = Duplicate Out of Spec
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SAMPLE DELIVERY GROUP

DE253

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Sep-2011	SL-028-SA7-SB-8.0-9.0	6418471	N	3050B	6010B	III
23-Sep-2011	SL-028-SA7-SB-8.0-9.0	6418471	N	3050B	6020	III
23-Sep-2011	SL-028-SA7-SB-8.0-9.0	6418471	N	3060A	7199	III
23-Sep-2011	SL-028-SA7-SB-8.0-9.0	6418471	N	3550B	8082	III
23-Sep-2011	SL-028-SA7-SB-8.0-9.0	6418471	N	3550B	8270C	III
23-Sep-2011	SL-028-SA7-SB-8.0-9.0	6418471	N	3550B	8270C SIM	III
23-Sep-2011	SL-028-SA7-SB-8.0-9.0	6418471	N	METHOD	300.0	III
23-Sep-2011	SL-028-SA7-SB-8.0-9.0	6418471	N	METHOD	314.0	III
23-Sep-2011	SL-028-SA7-SB-8.0-9.0	6418471	N	METHOD	7471A	III
26-Sep-2011	SL-001-SA3-SS-0.0-0.5	6419488	N	3050B	6010B	III
26-Sep-2011	SL-001-SA3-SS-0.0-0.5	6419488	N	3050B	6020	III
26-Sep-2011	SL-001-SA3-SS-0.0-0.5	6419488	N	3060A	7199	III
26-Sep-2011	SL-001-SA3-SS-0.0-0.5	6419488	N	3550B	8081A	III
26-Sep-2011	SL-001-SA3-SS-0.0-0.5	6419488	N	3550B	8082	III
26-Sep-2011	SL-001-SA3-SS-0.0-0.5	6419488	N	3550B	8151A	III
26-Sep-2011	SL-001-SA3-SS-0.0-0.5	6419488	N	3550B	8270C	III
26-Sep-2011	SL-001-SA3-SS-0.0-0.5	6419488	N	3550B	8270C SIM	III
26-Sep-2011	SL-001-SA3-SS-0.0-0.5	6419488	N	METHOD	300.0	III
26-Sep-2011	SL-001-SA3-SS-0.0-0.5	6419488	N	METHOD	314.0	III
26-Sep-2011	SL-001-SA3-SS-0.0-0.5	6419488	N	METHOD	7471A	III
26-Sep-2011	SL-002-SA3-SS-0.0-0.5	6419489	N	3050B	6010B	III
26-Sep-2011	SL-002-SA3-SS-0.0-0.5	6419489	N	3050B	6020	III
26-Sep-2011	SL-002-SA3-SS-0.0-0.5	6419489	N	3060A	7199	III
26-Sep-2011	SL-002-SA3-SS-0.0-0.5	6419489	N	3550B	8081A	III
26-Sep-2011	SL-002-SA3-SS-0.0-0.5	6419489	N	3550B	8082	III
26-Sep-2011	SL-002-SA3-SS-0.0-0.5	6419489	N	3550B	8151A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Sep-2011	SL-002-SA3-SS-0.0-0.5	6419489	N	3550B	8270C	III
26-Sep-2011	SL-002-SA3-SS-0.0-0.5	6419489	N	3550B	8270C SIM	III
26-Sep-2011	SL-002-SA3-SS-0.0-0.5	6419489	N	METHOD	300.0	III
26-Sep-2011	SL-002-SA3-SS-0.0-0.5	6419489	N	METHOD	314.0	III
26-Sep-2011	SL-002-SA3-SS-0.0-0.5	6419489	N	METHOD	7471A	III
26-Sep-2011	SL-027-SA5DS-SS-0.0-0.5	6419498	N	3050B	6010B	III
26-Sep-2011	SL-027-SA5DS-SS-0.0-0.5	6419498	N	3050B	6020	III
26-Sep-2011	SL-027-SA5DS-SS-0.0-0.5	6419498	N	3060A	7199	III
26-Sep-2011	SL-027-SA5DS-SS-0.0-0.5	6419498	N	3550B	8081A	III
26-Sep-2011	SL-027-SA5DS-SS-0.0-0.5	6419498	N	3550B	8082	III
26-Sep-2011	SL-027-SA5DS-SS-0.0-0.5	6419498	N	3550B	8151A	III
26-Sep-2011	SL-027-SA5DS-SS-0.0-0.5	6419498	N	3550B	8270C	III
26-Sep-2011	SL-027-SA5DS-SS-0.0-0.5	6419498	N	3550B	8270C SIM	III
26-Sep-2011	SL-027-SA5DS-SS-0.0-0.5	6419498	N	METHOD	300.0	III
26-Sep-2011	SL-027-SA5DS-SS-0.0-0.5	6419498	N	METHOD	314.0	III
26-Sep-2011	SL-027-SA5DS-SS-0.0-0.5	6419498	N	METHOD	7471A	III
26-Sep-2011	SL-026-SA5DS-SS-0.0-0.5	6419497	N	3050B	6010B	III
26-Sep-2011	SL-026-SA5DS-SS-0.0-0.5	6419497	N	3050B	6020	III
26-Sep-2011	SL-026-SA5DS-SS-0.0-0.5	6419497	N	3060A	7199	III
26-Sep-2011	SL-026-SA5DS-SS-0.0-0.5	6419497	N	3550B	8081A	III
26-Sep-2011	SL-026-SA5DS-SS-0.0-0.5	6419497	N	3550B	8082	III
26-Sep-2011	SL-026-SA5DS-SS-0.0-0.5	6419497	N	3550B	8151A	III
26-Sep-2011	SL-026-SA5DS-SS-0.0-0.5	6419497	N	3550B	8270C	III
26-Sep-2011	SL-026-SA5DS-SS-0.0-0.5	6419497	N	3550B	8270C SIM	III
26-Sep-2011	SL-026-SA5DS-SS-0.0-0.5	6419497	N	METHOD	300.0	III
26-Sep-2011	SL-026-SA5DS-SS-0.0-0.5	6419497	N	METHOD	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Sep-2011	SL-026-SA5DS-SS-0.0-0.5	6419497	N	METHOD	7471A	III
26-Sep-2011	SL-028-SA5DS-SS-0.0-0.5	6419499	N	3050B	6010B	III
26-Sep-2011	SL-028-SA5DS-SS-0.0-0.5	6419499	N	3050B	6020	III
26-Sep-2011	SL-028-SA5DS-SS-0.0-0.5	6419499	N	3060A	7199	III
26-Sep-2011	SL-028-SA5DS-SS-0.0-0.5	6419499	N	3550B	8081A	III
26-Sep-2011	SL-028-SA5DS-SS-0.0-0.5	6419499	N	3550B	8082	III
26-Sep-2011	SL-028-SA5DS-SS-0.0-0.5	6419499	N	3550B	8151A	III
26-Sep-2011	SL-028-SA5DS-SS-0.0-0.5	6419499	N	3550B	8270C	III
26-Sep-2011	SL-028-SA5DS-SS-0.0-0.5	6419499	N	3550B	8270C SIM	III
26-Sep-2011	SL-028-SA5DS-SS-0.0-0.5	6419499	N	METHOD	300.0	III
26-Sep-2011	SL-028-SA5DS-SS-0.0-0.5	6419499	N	METHOD	314.0	III
26-Sep-2011	SL-028-SA5DS-SS-0.0-0.5	6419499	N	METHOD	7471A	III
26-Sep-2011	SL-029-SA5DS-SS-0.0-0.5	6419500	N	3050B	6010B	III
26-Sep-2011	SL-029-SA5DS-SS-0.0-0.5	6419500	N	3050B	6020	III
26-Sep-2011	SL-029-SA5DS-SS-0.0-0.5	6419500	N	3060A	7199	III
26-Sep-2011	SL-029-SA5DS-SS-0.0-0.5	6419500	N	3550B	8081A	III
26-Sep-2011	SL-029-SA5DS-SS-0.0-0.5	6419500	N	3550B	8082	III
26-Sep-2011	SL-029-SA5DS-SS-0.0-0.5	6419500	N	3550B	8151A	III
26-Sep-2011	SL-029-SA5DS-SS-0.0-0.5	6419500	N	3550B	8270C	III
26-Sep-2011	SL-029-SA5DS-SS-0.0-0.5	6419500	N	3550B	8270C SIM	III
26-Sep-2011	SL-029-SA5DS-SS-0.0-0.5	6419500	N	METHOD	300.0	III
26-Sep-2011	SL-029-SA5DS-SS-0.0-0.5	6419500	N	METHOD	314.0	III
26-Sep-2011	SL-029-SA5DS-SS-0.0-0.5	6419500	N	METHOD	7471A	III
26-Sep-2011	SL-030-SA5DS-SS-0.0-0.5	6419501	N	3050B	6010B	III
26-Sep-2011	SL-030-SA5DS-SS-0.0-0.5	6419501	N	3050B	6020	III
26-Sep-2011	SL-030-SA5DS-SS-0.0-0.5	6419501	N	3060A	7199	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Sep-2011	SL-030-SA5DS-SS-0.0-0.5	6419501	N	3550B	8081A	III
26-Sep-2011	SL-030-SA5DS-SS-0.0-0.5	6419501	N	3550B	8082	III
26-Sep-2011	SL-030-SA5DS-SS-0.0-0.5	6419501	N	3550B	8151A	III
26-Sep-2011	SL-030-SA5DS-SS-0.0-0.5	6419501	N	3550B	8270C	III
26-Sep-2011	SL-030-SA5DS-SS-0.0-0.5	6419501	N	3550B	8270C SIM	III
26-Sep-2011	SL-030-SA5DS-SS-0.0-0.5	6419501	N	METHOD	300.0	III
26-Sep-2011	SL-030-SA5DS-SS-0.0-0.5	6419501	N	METHOD	314.0	III
26-Sep-2011	SL-030-SA5DS-SS-0.0-0.5	6419501	N	METHOD	7471A	III
26-Sep-2011	SL-031-SA5DS-SS-0.0-0.5	6419502	N	3050B	6010B	III
26-Sep-2011	SL-031-SA5DS-SS-0.0-0.5	6419502	N	3050B	6020	III
26-Sep-2011	SL-031-SA5DS-SS-0.0-0.5	6419502	N	3060A	7199	III
26-Sep-2011	SL-031-SA5DS-SS-0.0-0.5	6419502	N	3550B	8081A	III
26-Sep-2011	SL-031-SA5DS-SS-0.0-0.5	6419502	N	3550B	8082	III
26-Sep-2011	SL-031-SA5DS-SS-0.0-0.5	6419502	N	3550B	8151A	III
26-Sep-2011	SL-031-SA5DS-SS-0.0-0.5	6419502	N	3550B	8270C	III
26-Sep-2011	SL-031-SA5DS-SS-0.0-0.5	6419502	N	3550B	8270C SIM	III
26-Sep-2011	SL-031-SA5DS-SS-0.0-0.5	6419502	N	METHOD	300.0	III
26-Sep-2011	SL-031-SA5DS-SS-0.0-0.5	6419502	N	METHOD	314.0	III
26-Sep-2011	SL-031-SA5DS-SS-0.0-0.5	6419502	N	METHOD	7471A	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5	6419503	N	3050B	6010B	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5	6419503	N	3050B	6020	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5	6419503	N	3060A	7199	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5	6419503	N	3550B	8081A	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5	6419503	N	3550B	8082	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5	6419503	N	3550B	8151A	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5	6419503	N	3550B	8270C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5	6419503	N	3550B	8270C SIM	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5	6419503	N	METHOD	300.0	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5	6419503	N	METHOD	314.0	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5	6419503	N	METHOD	7471A	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5DU	P419503D271501B	DUP	METHOD	300.0	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5MS	P419503R271514B	MS	METHOD	300.0	III
26-Sep-2011	SL-002-SA5DS-SS-0.0-0.5	6419490	N	3050B	6010B	III
26-Sep-2011	SL-002-SA5DS-SS-0.0-0.5	6419490	N	3050B	6020	III
26-Sep-2011	SL-002-SA5DS-SS-0.0-0.5	6419490	N	3060A	7199	III
26-Sep-2011	SL-002-SA5DS-SS-0.0-0.5	6419490	N	3550B	8081A	III
26-Sep-2011	SL-002-SA5DS-SS-0.0-0.5	6419490	N	3550B	8082	III
26-Sep-2011	SL-002-SA5DS-SS-0.0-0.5	6419490	N	3550B	8151A	III
26-Sep-2011	SL-002-SA5DS-SS-0.0-0.5	6419490	N	3550B	8270C	III
26-Sep-2011	SL-002-SA5DS-SS-0.0-0.5	6419490	N	3550B	8270C SIM	III
26-Sep-2011	SL-002-SA5DS-SS-0.0-0.5	6419490	N	METHOD	300.0	III
26-Sep-2011	SL-002-SA5DS-SS-0.0-0.5	6419490	N	METHOD	314.0	III
26-Sep-2011	SL-002-SA5DS-SS-0.0-0.5	6419490	N	METHOD	7471A	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5	6419491	N	3050B	6010B	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5	6419491	N	3050B	6020	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5	6419491	N	3060A	7199	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5	6419491	N	3550B	8081A	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5	6419491	N	3550B	8082	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5	6419491	N	3550B	8151A	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5	6419491	N	3550B	8270C	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5	6419491	N	3550B	8270C SIM	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5	6419491	N	METHOD	300.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5	6419491	N	METHOD	314.0	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5	6419491	N	METHOD	7471A	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 M	6419492	MS	3050B	6010B	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 M	6419492	MS	3050B	6020	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 M	6419492	MS	3060A	7199	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 M	6419492	MS	3550B	8081A	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 M	6419492	MS	3550B	8082	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 M	6419492	MS	3550B	8151A	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 M	6419492	MS	3550B	8270C	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 M	6419492	MS	3550B	8270C SIM	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 M	6419492	MS	METHOD	300.0	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 M	6419492	MS	METHOD	314.0	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 M	6419492	MS	METHOD	7471A	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 D	6419494	DUP	3050B	6010B	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 D	6419494	DUP	3050B	6020	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 D	6419494	DUP	3060A	7199	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 D	6419494	DUP	METHOD	300.0	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 D	6419494	DUP	METHOD	314.0	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 D	6419494	DUP	METHOD	7471A	III
26-Sep-2011	DUP01-SA5DS-QC-092611	6419504	FD	3050B	6010B	III
26-Sep-2011	DUP01-SA5DS-QC-092611	6419504	FD	3050B	6020	III
26-Sep-2011	DUP01-SA5DS-QC-092611	6419504	FD	3060A	7199	III
26-Sep-2011	DUP01-SA5DS-QC-092611	6419504	FD	3550B	8081A	III
26-Sep-2011	DUP01-SA5DS-QC-092611	6419504	FD	3550B	8082	III
26-Sep-2011	DUP01-SA5DS-QC-092611	6419504	FD	3550B	8151A	III
26-Sep-2011	DUP01-SA5DS-QC-092611	6419504	FD	3550B	8270C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Sep-2011	DUP01-SA5DS-QC-092611	6419504	FD	3550B	8270C SIM	III
26-Sep-2011	DUP01-SA5DS-QC-092611	6419504	FD	METHOD	300.0	III
26-Sep-2011	DUP01-SA5DS-QC-092611	6419504	FD	METHOD	314.0	III
26-Sep-2011	DUP01-SA5DS-QC-092611	6419504	FD	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: DUP01-SA5DS-QC-092611	Collected: 9/26/2011 3:10:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.9		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-001-SA3-SS-0.0-0.5	Collected: 9/26/2011 7:50:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.80	U	0.80	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-001-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 3:05:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.6		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-002-SA3-SS-0.0-0.5	Collected: 9/26/2011 8:15:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.4		0.79	MDL	0.99	PQL	mg/Kg	J	Q

Sample ID: SL-002-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 2:35:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.4		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-026-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 10:35:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.83	U	0.83	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-027-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 9:25:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.80	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-028-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 10:50:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.79	U	0.79	MDL	0.99	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-029-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 11:10:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-030-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 11:25:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.2		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-031-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 11:50:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.6		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-032-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 12:10:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.2		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: DUP01-SA5DS-QC-092611	Collected: 9/26/2011 3:10:00	Analysis Type: REA	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.90	J	0.316	MDL	9.88	PQL	mg/Kg	U	B

Sample ID: SL-001-SA3-SS-0.0-0.5	Collected: 9/26/2011 7:50:00	Analysis Type: REA	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	87.8	J	5.83	MDL	98.0	PQL	mg/Kg	J	Z
TIN	3.17	J	0.314	MDL	9.80	PQL	mg/Kg	U	B
Zirconium	2.95	J	0.451	MDL	4.90	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: PrepDE253_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6010B **Matrix:** SO

Sample ID: SL-001-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 3:05:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.00	J	0.322	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-002-SA3-SS-0.0-0.5 Collected: 9/26/2011 8:15:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	74.5	J	5.78	MDL	97.1	PQL	mg/Kg	J	Z
TIN	2.78	J	0.311	MDL	9.71	PQL	mg/Kg	U	B
Zirconium	2.40	J	0.447	MDL	4.85	PQL	mg/Kg	U	B

Sample ID: SL-002-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 2:35:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.06	J	0.320	MDL	10.0	PQL	mg/Kg	U	B

Sample ID: SL-026-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 10:35:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.20	J	0.315	MDL	9.85	PQL	mg/Kg	U	B
Zirconium	2.89	J	0.453	MDL	4.92	PQL	mg/Kg	U	B

Sample ID: SL-027-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 9:25:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.63	J	0.314	MDL	9.83	PQL	mg/Kg	U	B

Sample ID: SL-028-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 10:50:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.05	J	0.312	MDL	9.76	PQL	mg/Kg	U	B

Sample ID: SL-028-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 10:50:00 Analysis Type: REA3 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.42	J	0.449	MDL	4.88	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-028-SA7-SB-8.0-9.0			Collected: 9/23/2011 2:14:00			Analysis Type: RES		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.53	J	0.339	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	0.771	J	0.488	MDL	5.30	PQL	mg/Kg	U	B

Sample ID: SL-029-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 11:10:00			Analysis Type: REA		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.12	J	0.328	MDL	10.2	PQL	mg/Kg	U	B

Sample ID: SL-029-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 11:10:00			Analysis Type: REA4		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	4.39	J	0.471	MDL	5.12	PQL	mg/Kg	J	Z

Sample ID: SL-030-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 11:25:00			Analysis Type: REA		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.08	J	0.324	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-030-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 11:25:00			Analysis Type: REA4		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.54	J	0.466	MDL	5.06	PQL	mg/Kg	J	Z

Sample ID: SL-031-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 11:50:00			Analysis Type: REA		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.21	J	0.331	MDL	10.4	PQL	mg/Kg	U	B

Sample ID: SL-031-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 11:50:00			Analysis Type: REA4		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	5.13	J	0.476	MDL	5.18	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-032-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 12:10:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.07	J	0.327	MDL	10.2	PQL	mg/Kg	U	B

Sample ID: SL-032-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 12:10:00 Analysis Type: REA4 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.88	J	0.470	MDL	5.11	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: DUP01-SA5DS-QC-092611 Collected: 9/26/2011 3:10:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.430		0.0745	MDL	0.201	PQL	mg/Kg	J	Q
ARSENIC	8.99		0.0806	MDL	0.403	PQL	mg/Kg	J	Q
CADMIUM	0.351		0.0443	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	63.1		0.121	MDL	0.403	PQL	mg/Kg	J	A
COPPER	8.84		0.0806	MDL	0.403	PQL	mg/Kg	J	Q
LEAD	48.0		0.0103	MDL	0.201	PQL	mg/Kg	J	A
NICKEL	19.4		0.101	MDL	0.403	PQL	mg/Kg	J	Q, A
SILVER	0.0541	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.197		0.0302	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	118		0.0222	MDL	0.101	PQL	mg/Kg	J	A
ZINC	82.3		0.564	MDL	3.02	PQL	mg/Kg	J	A

Sample ID: DUP01-SA5DS-QC-092611 Collected: 9/26/2011 3:10:00 Analysis Type: REA7 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.275	J	0.0584	MDL	0.403	PQL	mg/Kg	J	Z, Q

Sample ID: DUP01-SA5DS-QC-092611 Collected: 9/26/2011 3:10:00 Analysis Type: REA8 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.906		0.0504	MDL	0.101	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: DUP01-SA5DS-QC-092611	Collected: 9/26/2011 3:10:00	Analysis Type: REA9	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	98.1		0.107	MDL	0.403	PQL	mg/Kg	J	A

Sample ID: SL-001-SA3-SS-0.0-0.5	Collected: 9/26/2011 7:50:00	Analysis Type: REA4	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.122	J	0.0725	MDL	0.196	PQL	mg/Kg	J	Z, Q
ARSENIC	3.15		0.0784	MDL	0.392	PQL	mg/Kg	J	Q
CADMIUM	0.170		0.0431	MDL	0.0980	PQL	mg/Kg	J	Q
CHROMIUM	12.0		0.118	MDL	0.392	PQL	mg/Kg	J	A
COPPER	6.59		0.0784	MDL	0.392	PQL	mg/Kg	J	Q
LEAD	15.0		0.0100	MDL	0.196	PQL	mg/Kg	J	A
NICKEL	8.35		0.0980	MDL	0.392	PQL	mg/Kg	J	Q, A
SILVER	0.0759	J	0.0139	MDL	0.0980	PQL	mg/Kg	J	Z, Q
THALLIUM	0.251		0.0294	MDL	0.0980	PQL	mg/Kg	J	Q
VANADIUM	24.5		0.0216	MDL	0.0980	PQL	mg/Kg	J	A
ZINC	86.9		0.549	MDL	2.94	PQL	mg/Kg	J	A

Sample ID: SL-001-SA3-SS-0.0-0.5	Collected: 9/26/2011 7:50:00	Analysis Type: REA7	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.145	J	0.0569	MDL	0.392	PQL	mg/Kg	J	Z, Q

Sample ID: SL-001-SA3-SS-0.0-0.5	Collected: 9/26/2011 7:50:00	Analysis Type: REA8	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.473		0.0490	MDL	0.0980	PQL	mg/Kg	J	Q

Sample ID: SL-001-SA3-SS-0.0-0.5	Collected: 9/26/2011 7:50:00	Analysis Type: REA9	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	84.7		0.104	MDL	0.392	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE253
 EDD Filename: DE253_v2.

Laboratory: LL
 eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-001-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 3:05:00	Analysis Type: REA4	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.436		0.0730	MDL	0.197	PQL	mg/Kg	J	Q
ARSENIC	7.36		0.0790	MDL	0.395	PQL	mg/Kg	J	Q
CADMIUM	0.294		0.0434	MDL	0.0987	PQL	mg/Kg	J	Q
CHROMIUM	54.1		0.118	MDL	0.395	PQL	mg/Kg	J	A
COPPER	7.37		0.0790	MDL	0.395	PQL	mg/Kg	J	Q
LEAD	40.1		0.0101	MDL	0.197	PQL	mg/Kg	J	A
NICKEL	14.0		0.0987	MDL	0.395	PQL	mg/Kg	J	Q, A
SILVER	0.0372	J	0.0140	MDL	0.0987	PQL	mg/Kg	J	Z, Q
THALLIUM	0.172		0.0296	MDL	0.0987	PQL	mg/Kg	J	Q
VANADIUM	98.1		0.0217	MDL	0.0987	PQL	mg/Kg	J	A
ZINC	72.7		0.553	MDL	2.96	PQL	mg/Kg	J	A

Sample ID: SL-001-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 3:05:00	Analysis Type: REA7	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.257	J	0.0572	MDL	0.395	PQL	mg/Kg	J	Z, Q

Sample ID: SL-001-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 3:05:00	Analysis Type: REA8	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.757		0.0494	MDL	0.0987	PQL	mg/Kg	J	Q

Sample ID: SL-001-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 3:05:00	Analysis Type: REA9	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	69.4		0.105	MDL	0.395	PQL	mg/Kg	J	A

Sample ID: SL-002-SA3-SS-0.0-0.5	Collected: 9/26/2011 8:15:00	Analysis Type: REA4	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.141	J	0.0733	MDL	0.198	PQL	mg/Kg	J	Z, Q
ARSENIC	2.97		0.0792	MDL	0.396	PQL	mg/Kg	J	Q
CADMIUM	0.217		0.0436	MDL	0.0990	PQL	mg/Kg	J	Q
CHROMIUM	14.7		0.119	MDL	0.396	PQL	mg/Kg	J	A
COPPER	7.24		0.0792	MDL	0.396	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-002-SA3-SS-0.0-0.5 Collected: 9/26/2011 8:15:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	15.5		0.0101	MDL	0.198	PQL	mg/Kg	J	A
NICKEL	9.40		0.0990	MDL	0.396	PQL	mg/Kg	J	Q, A
SILVER	0.0809	J	0.0141	MDL	0.0990	PQL	mg/Kg	J	Z, Q
THALLIUM	0.237		0.0297	MDL	0.0990	PQL	mg/Kg	J	Q
VANADIUM	31.0		0.0218	MDL	0.0990	PQL	mg/Kg	J	A
ZINC	106		0.554	MDL	2.97	PQL	mg/Kg	J	A

Sample ID: SL-002-SA3-SS-0.0-0.5 Collected: 9/26/2011 8:15:00 Analysis Type: REA7 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z, Q

Sample ID: SL-002-SA3-SS-0.0-0.5 Collected: 9/26/2011 8:15:00 Analysis Type: REA8 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.429		0.0495	MDL	0.0990	PQL	mg/Kg	J	Q

Sample ID: SL-002-SA3-SS-0.0-0.5 Collected: 9/26/2011 8:15:00 Analysis Type: REA9 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	86.7		0.105	MDL	0.396	PQL	mg/Kg	J	A

Sample ID: SL-002-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 2:35:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.309		0.0748	MDL	0.202	PQL	mg/Kg	J	Q
ARSENIC	6.53		0.0809	MDL	0.405	PQL	mg/Kg	J	Q
CADMIUM	0.345		0.0445	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	48.8		0.121	MDL	0.405	PQL	mg/Kg	J	A
COPPER	11.0		0.0809	MDL	0.405	PQL	mg/Kg	J	Q
LEAD	24.2		0.0103	MDL	0.202	PQL	mg/Kg	J	A
NICKEL	15.8		0.101	MDL	0.405	PQL	mg/Kg	J	Q, A
SILVER	0.0472	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.219		0.0303	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	84.4		0.0222	MDL	0.101	PQL	mg/Kg	J	A

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-002-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 2:35:00	Analysis Type: REA4	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	75.9		0.566	MDL	3.03	PQL	mg/Kg	J	A

Sample ID: SL-002-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 2:35:00	Analysis Type: REA7	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.294	J	0.0587	MDL	0.405	PQL	mg/Kg	J	Z, Q

Sample ID: SL-002-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 2:35:00	Analysis Type: REA8	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.747		0.0506	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-002-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 2:35:00	Analysis Type: REA9	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	105		0.107	MDL	0.405	PQL	mg/Kg	J	A

Sample ID: SL-026-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 10:35:00	Analysis Type: REA4	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.102	J	0.0736	MDL	0.199	PQL	mg/Kg	J	Z, Q
ARSENIC	3.27		0.0795	MDL	0.398	PQL	mg/Kg	J	Q
CADMIUM	0.152		0.0437	MDL	0.0994	PQL	mg/Kg	J	Q
CHROMIUM	24.8		0.119	MDL	0.398	PQL	mg/Kg	J	A
COPPER	11.9		0.0795	MDL	0.398	PQL	mg/Kg	J	Q
LEAD	12.1		0.0101	MDL	0.199	PQL	mg/Kg	J	A
NICKEL	20.0		0.0994	MDL	0.398	PQL	mg/Kg	J	Q, A
SILVER	0.0205	J	0.0141	MDL	0.0994	PQL	mg/Kg	J	Z, Q
THALLIUM	0.186		0.0298	MDL	0.0994	PQL	mg/Kg	J	Q
VANADIUM	63.9		0.0219	MDL	0.0994	PQL	mg/Kg	J	A
ZINC	58.8		0.557	MDL	2.98	PQL	mg/Kg	J	A

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-026-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 10:35:00			Analysis Type: REA7		Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.154	J	0.0577	MDL	0.398	PQL	mg/Kg	J	Z, Q

Sample ID: SL-026-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 10:35:00			Analysis Type: REA8		Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.404		0.0497	MDL	0.0994	PQL	mg/Kg	J	Q

Sample ID: SL-026-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 10:35:00			Analysis Type: REA9		Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.105	MDL	0.398	PQL	mg/Kg	J	A

Sample ID: SL-027-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 9:25:00			Analysis Type: REA4		Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.194	J	0.0734	MDL	0.198	PQL	mg/Kg	J	Z, Q
ARSENIC	5.79		0.0794	MDL	0.397	PQL	mg/Kg	J	Q
CADMIUM	0.354		0.0437	MDL	0.0992	PQL	mg/Kg	J	Q
CHROMIUM	44.5		0.119	MDL	0.397	PQL	mg/Kg	J	A
COPPER	14.1		0.0794	MDL	0.397	PQL	mg/Kg	J	Q
LEAD	10.1		0.0101	MDL	0.198	PQL	mg/Kg	J	A
NICKEL	20.6		0.0992	MDL	0.397	PQL	mg/Kg	J	Q, A
SILVER	0.161		0.0141	MDL	0.0992	PQL	mg/Kg	J	Q
THALLIUM	0.367		0.0298	MDL	0.0992	PQL	mg/Kg	J	Q
VANADIUM	95.0		0.0218	MDL	0.0992	PQL	mg/Kg	J	A
ZINC	104		0.556	MDL	2.98	PQL	mg/Kg	J	A

Sample ID: SL-027-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 9:25:00			Analysis Type: REA7		Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.282	J	0.0576	MDL	0.397	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS									
Method:	6020			Matrix: SO						

Sample ID: SL-027-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 9:25:00			Analysis Type: REA8		Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
MOLYBDENUM	0.413		0.0496	MDL	0.0992	PQL	mg/Kg	J	Q	

Sample ID: SL-027-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 9:25:00			Analysis Type: REA9		Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
BARIIUM	128		0.105	MDL	0.397	PQL	mg/Kg	J	A	

Sample ID: SL-028-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 10:50:00			Analysis Type: REA4		Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
ANTIMONY	0.145	J	0.0722	MDL	0.195	PQL	mg/Kg	J	Z, Q	
ARSENIC	2.80		0.0781	MDL	0.391	PQL	mg/Kg	J	Q	
CADMIUM	0.362		0.0430	MDL	0.0976	PQL	mg/Kg	J	Q	
CHROMIUM	22.5		0.117	MDL	0.391	PQL	mg/Kg	J	A	
COPPER	16.5		0.0781	MDL	0.391	PQL	mg/Kg	J	Q	
LEAD	28.1		0.010	MDL	0.195	PQL	mg/Kg	J	A	
NICKEL	17.3		0.0976	MDL	0.391	PQL	mg/Kg	J	Q, A	
SILVER	0.351		0.0139	MDL	0.0976	PQL	mg/Kg	J	Q	
THALLIUM	0.244		0.0293	MDL	0.0976	PQL	mg/Kg	J	Q	
VANADIUM	62.6		0.0215	MDL	0.0976	PQL	mg/Kg	J	A	
ZINC	109		0.547	MDL	2.93	PQL	mg/Kg	J	A	

Sample ID: SL-028-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 10:50:00			Analysis Type: REA7		Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
SELENIUM	0.144	J	0.0566	MDL	0.391	PQL	mg/Kg	J	Z, Q	

Sample ID: SL-028-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 10:50:00			Analysis Type: REA8		Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
MOLYBDENUM	0.384		0.0488	MDL	0.0976	PQL	mg/Kg	J	Q	

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS									
Method:	6020			Matrix: SO						

Sample ID: SL-028-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 10:50:00			Analysis Type: REA9		Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
BARIUM	140		0.103	MDL	0.391	PQL	mg/Kg	J	A	

Sample ID: SL-028-SA7-SB-8.0-9.0			Collected: 9/23/2011 2:14:00			Analysis Type: REA		Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
SELENIUM	0.0969	J	0.0597	MDL	0.412	PQL	mg/Kg	J	Z	

Sample ID: SL-028-SA7-SB-8.0-9.0			Collected: 9/23/2011 2:14:00			Analysis Type: RES		Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
ANTIMONY	0.0762	U	0.0762	MDL	0.206	PQL	mg/Kg	UJ	Q	
ARSENIC	4.27		0.0824	MDL	0.412	PQL	mg/Kg	J	Q	
CADMIUM	0.0722	J	0.0453	MDL	0.103	PQL	mg/Kg	J	Z	
CHROMIUM	20.1		0.124	MDL	0.412	PQL	mg/Kg	J	Q	
COPPER	8.13		0.0824	MDL	0.412	PQL	mg/Kg	J	Q	
LEAD	4.25		0.0105	MDL	0.206	PQL	mg/Kg	J	Q	
NICKEL	11.7		0.103	MDL	0.412	PQL	mg/Kg	J	Q	
SILVER	0.0176	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z	
VANADIUM	38.8		0.0227	MDL	0.103	PQL	mg/Kg	J	Q	

Sample ID: SL-029-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 11:10:00			Analysis Type: REA4		Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
ANTIMONY	0.343		0.0744	MDL	0.201	PQL	mg/Kg	J	Q	
ARSENIC	8.36		0.0804	MDL	0.402	PQL	mg/Kg	J	Q	
CADMIUM	0.252		0.0442	MDL	0.101	PQL	mg/Kg	J	Q	
CHROMIUM	58.8		0.121	MDL	0.402	PQL	mg/Kg	J	A	
COPPER	22.4		0.0804	MDL	0.402	PQL	mg/Kg	J	Q	
LEAD	15.7		0.0103	MDL	0.201	PQL	mg/Kg	J	A	
NICKEL	29.2		0.101	MDL	0.402	PQL	mg/Kg	J	Q, A	
SILVER	0.0472	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q	
THALLIUM	0.539		0.0302	MDL	0.101	PQL	mg/Kg	J	Q	
VANADIUM	118		0.0221	MDL	0.101	PQL	mg/Kg	J	A	
ZINC	116		0.563	MDL	3.02	PQL	mg/Kg	J	A	

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS									
Method:	6020			Matrix: SO						

Sample ID: SL-029-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 11:10:00			Analysis Type: REA7		Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
SELENIUM	0.412		0.0583	MDL	0.402	PQL	mg/Kg	J	Q	

Sample ID: SL-029-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 11:10:00			Analysis Type: REA8		Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
MOLYBDENUM	0.514		0.0503	MDL	0.101	PQL	mg/Kg	J	Q	

Sample ID: SL-029-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 11:10:00			Analysis Type: REA9		Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
BARIUM	143		0.107	MDL	0.402	PQL	mg/Kg	J	A	

Sample ID: SL-030-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 11:25:00			Analysis Type: REA4		Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
ARSENIC	9.83		0.0810	MDL	0.405	PQL	mg/Kg	J	Q	
CADMIUM	0.283		0.0445	MDL	0.101	PQL	mg/Kg	J	Q	
CHROMIUM	68.5		0.121	MDL	0.405	PQL	mg/Kg	J	A	
COPPER	25.6		0.0810	MDL	0.405	PQL	mg/Kg	J	Q	
LEAD	17.8		0.0103	MDL	0.202	PQL	mg/Kg	J	A	
NICKEL	34.2		0.101	MDL	0.405	PQL	mg/Kg	J	Q, A	
SILVER	0.0488	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q	
THALLIUM	0.616		0.0304	MDL	0.101	PQL	mg/Kg	J	Q	
VANADIUM	136		0.0223	MDL	0.101	PQL	mg/Kg	J	A	
ZINC	138		0.567	MDL	3.04	PQL	mg/Kg	J	A	

Sample ID: SL-030-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 11:25:00			Analysis Type: REA6		Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
ANTIMONY	0.182	J	0.0749	MDL	0.202	PQL	mg/Kg	J	Z, Q	

Sample ID: SL-030-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 11:25:00			Analysis Type: REA7		Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
SELENIUM	0.483		0.0587	MDL	0.405	PQL	mg/Kg	J	Q	

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS									
Method:	6020			Matrix: SO						

Sample ID: SL-030-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 11:25:00 Analysis Type: REA8 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.651		0.0506	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-030-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 11:25:00 Analysis Type: REA9 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	180		0.107	MDL	0.405	PQL	mg/Kg	J	A

Sample ID: SL-031-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 11:50:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.341		0.0751	MDL	0.203	PQL	mg/Kg	J	Q
ARSENIC	8.83		0.0812	MDL	0.406	PQL	mg/Kg	J	Q
CADMIUM	0.268		0.0447	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	55.5		0.122	MDL	0.406	PQL	mg/Kg	J	A
COPPER	24.8		0.0812	MDL	0.406	PQL	mg/Kg	J	Q
LEAD	32.3		0.0104	MDL	0.203	PQL	mg/Kg	J	A
NICKEL	28.6		0.101	MDL	0.406	PQL	mg/Kg	J	Q, A
SILVER	0.0554	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.526		0.0304	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	111		0.0223	MDL	0.101	PQL	mg/Kg	J	A
ZINC	138		0.568	MDL	3.04	PQL	mg/Kg	J	A

Sample ID: SL-031-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 11:50:00 Analysis Type: REA7 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.510		0.0589	MDL	0.406	PQL	mg/Kg	J	Q

Sample ID: SL-031-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 11:50:00 Analysis Type: REA8 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.664		0.0507	MDL	0.101	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS									
Method:	6020			Matrix: SO						

Sample ID: SL-031-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 11:50:00 Analysis Type: REA9 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	151		0.108	MDL	0.406	PQL	mg/Kg	J	A

Sample ID: SL-032-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 12:10:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.317		0.0749	MDL	0.202	PQL	mg/Kg	J	Q
ARSENIC	8.40		0.0810	MDL	0.405	PQL	mg/Kg	J	Q
CADMIUM	0.282		0.0445	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	47.7		0.121	MDL	0.405	PQL	mg/Kg	J	A
COPPER	20.1		0.0810	MDL	0.405	PQL	mg/Kg	J	Q
LEAD	15.3		0.0103	MDL	0.202	PQL	mg/Kg	J	A
NICKEL	26.2		0.101	MDL	0.405	PQL	mg/Kg	J	Q, A
SILVER	0.0435	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.474		0.0304	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	97.5		0.0223	MDL	0.101	PQL	mg/Kg	J	A
ZINC	101		0.567	MDL	3.04	PQL	mg/Kg	J	A

Sample ID: SL-032-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 12:10:00 Analysis Type: REA7 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.515		0.0587	MDL	0.405	PQL	mg/Kg	J	Q

Sample ID: SL-032-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 12:10:00 Analysis Type: REA8 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.794		0.0506	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-032-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 12:10:00 Analysis Type: REA9 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	146		0.107	MDL	0.405	PQL	mg/Kg	J	A

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-026-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 10:35:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.34	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-028-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 10:50:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.38	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-028-SA7-SB-8.0-9.0	Collected: 9/23/2011 2:14:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-031-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 11:50:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.38	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-032-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 12:10:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.37	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: DUP01-SA5DS-QC-092611	Collected: 9/26/2011 3:10:00	Analysis Type: REA	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0115	J	0.0066	MDL	0.0943	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 3:05:00	Analysis Type: REA	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0133	J	0.0070	MDL	0.0997	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-002-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 2:35:00	Analysis Type: REA	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0222	J	0.0069	MDL	0.0979	PQL	mg/Kg	J	Z

Sample ID: SL-028-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 10:50:00	Analysis Type: REA	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0095	J	0.0070	MDL	0.0996	PQL	mg/Kg	J	Z

Sample ID: SL-029-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 11:10:00	Analysis Type: REA	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0076	J	0.0068	MDL	0.0964	PQL	mg/Kg	J	Z

Sample ID: SL-030-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 11:25:00	Analysis Type: REA	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0145	J	0.0070	MDL	0.100	PQL	mg/Kg	J	Z

Sample ID: SL-031-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 11:50:00	Analysis Type: REA	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0130	J	0.0070	MDL	0.100	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	8081A	Matrix: SO

Sample ID: DUP01-SA5DS-QC-092611	Collected: 9/26/2011 3:10:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	5.3		0.81	MDL	3.4	PQL	ug/Kg	J	FD
DELTA-BHC	0.48		0.036	MDL	0.17	PQL	ug/Kg	J	FD

Sample ID: SL-001-SA3-SS-0.0-0.5	Collected: 9/26/2011 7:50:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.70		0.066	MDL	0.34	PQL	ug/Kg	J	S

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Matrix:	SO
Method:	8081A		

Sample ID: SL-001-SA3-SS-0.0-0.5 Collected: 9/26/2011 7:50:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	0.91		0.066	MDL	0.34	PQL	ug/Kg	J	S
Chlordane	2.4	J	0.80	MDL	3.4	PQL	ug/Kg	J	Z, S

Sample ID: SL-001-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 3:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.066	U	0.066	MDL	0.34	PQL	ug/Kg	R	Q
Chlordane	2.0	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z, FD
DELTA-BHC	0.039	U	0.039	MDL	0.17	PQL	ug/Kg	UJ	FD
ENDRIN ALDEHYDE	0.43		0.066	MDL	0.34	PQL	ug/Kg	J	Q

Sample ID: SL-002-SA3-SS-0.0-0.5 Collected: 9/26/2011 8:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	1.7	J	0.80	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-002-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 2:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.14	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z
DELTA-BHC	0.052	J	0.037	MDL	0.17	PQL	ug/Kg	J	Z
gamma-BHC (Lindane)	0.040	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-027-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 9:25:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	1.1	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
4,4'-DDT	1.3	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-028-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 10:50:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	10	J	4.0	MDL	17	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8081A	Matrix:	SO
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Sample ID: SL-029-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 11:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	3.3	J	0.83	MDL	3.5	PQL	ug/Kg	J	Z

Sample ID: SL-030-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 11:25:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.090	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z
Chlordane	3.4	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z
ENDOSULFAN I	0.089	J	0.045	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-032-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 12:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	2.6	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z
gamma-BHC (Lindane)	0.057	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z
METHOXYCHLOR	0.81	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z

Method Category:	SVOA	Method:	8082	Matrix:	SO
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Sample ID: DUP01-SA5DS-QC-092611 Collected: 9/26/2011 3:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	7.4		1.0	MDL	3.3	PQL	ug/Kg	J	FD

Sample ID: SL-001-SA3-SS-0.0-0.5 Collected: 9/26/2011 7:50:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.53	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
AROCLOR 1260	1.3	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	3.0	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: SL-001-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 3:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.4	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8082	Matrix:	SO
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Sample ID: SL-002-SA3-SS-0.0-0.5 Collected: 9/26/2011 8:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.3	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-002-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 2:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	3.3	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-028-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 10:50:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.98	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-030-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 11:25:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.3	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z

Method Category:	SVOA	Method:	8151A	Matrix:	SO
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Sample ID: DUP01-SA5DS-QC-092611 Collected: 9/26/2011 3:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-001-SA3-SS-0.0-0.5 Collected: 9/26/2011 7:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICHLOROPROP	1.6	J	0.80	MDL	1.7	PQL	ug/Kg	J	Z
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-001-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 3:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.076	U	0.076	MDL	0.17	PQL	ug/Kg	R	Q

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVQA	Matrix:	SO
Method:	8151A		

Sample ID: SL-001-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 3:05:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	2.0	U	2.0	MDL	2.0	PQL	ug/Kg	R	Q
DALAPON	4.4	U	4.4	MDL	9.1	PQL	ug/Kg	R	Q
DICAMBA	0.40	U	0.40	MDL	1.2	PQL	ug/Kg	R	Q
DICHLOROPROP	0.81	U	0.81	MDL	1.7	PQL	ug/Kg	R	Q
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	Q, L
MCPA	77	U	77	MDL	250	PQL	ug/Kg	R	Q
MCPP	76	U	76	MDL	250	PQL	ug/Kg	R	Q

Sample ID: SL-002-SA3-SS-0.0-0.5	Collected: 9/26/2011 8:15:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	2.5	J	1.2	MDL	3.6	PQL	ug/Kg	J	Z
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-002-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 2:35:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-026-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 10:35:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.86	J	0.81	MDL	2.4	PQL	ug/Kg	J	Z, L

Sample ID: SL-027-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 9:25:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-028-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 10:50:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L
MCPA	120	J	76	MDL	250	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Matrix:	SO
Method:	8151A		

Sample ID: SL-029-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 11:10:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.7	J	0.64	MDL	1.8	PQL	ug/Kg	J	Z
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-030-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 11:25:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-031-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 11:50:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-032-SA5DS-SS-0.0-0.5	Collected: 9/26/2011 12:10:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.15	J	0.084	MDL	0.17	PQL	ug/Kg	J	Z
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L

Method Category:	SVOA	Matrix:	SO
Method:	8270C		

Sample ID: DUP01-SA5DS-QC-092611	Collected: 9/26/2011 3:10:00	Analysis Type: RES-ACID	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	500	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	51	J	17	MDL	330	PQL	ug/Kg	J	Z
PHENOL	18	J	17	MDL	170	PQL	ug/Kg	J	Z, FD

Sample ID: SL-001-SA3-SS-0.0-0.5	Collected: 9/26/2011 7:50:00	Analysis Type: RES-ACID	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	500	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8270C	Matrix:	SO
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Sample ID: SL-001-SA5DS-SS-0.0-0.5		Collected: 9/26/2011 3:05:00		Analysis Type: RES-ACID				Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	500	PQL	ug/Kg	UJ	L
BENZIDINE	1200	U	1200	MDL	3300	PQL	ug/Kg	R	Q
FLUORANTHENE	36	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	35	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENOL	17	U	17	MDL	170	PQL	ug/Kg	UJ	FD
PYRENE	24	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-002-SA3-SS-0.0-0.5		Collected: 9/26/2011 8:15:00		Analysis Type: RES-ACID				Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	500	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	83	J	17	MDL	330	PQL	ug/Kg	J	Z

Sample ID: SL-002-SA5DS-SS-0.0-0.5		Collected: 9/26/2011 2:35:00		Analysis Type: RES-ACID				Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

Sample ID: SL-026-SA5DS-SS-0.0-0.5		Collected: 9/26/2011 10:35:00		Analysis Type: RES-ACID				Dilution: 5	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	8300	U	8300	MDL	25000	PQL	ug/Kg	UJ	L
BENZO(A)PYRENE	1400	J	830	MDL	8300	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1400	J	830	MDL	8300	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1100	J	830	MDL	8300	PQL	ug/Kg	J	Z
CHRYSENE	1500	J	830	MDL	8300	PQL	ug/Kg	J	Z
FLUORANTHENE	1100	J	830	MDL	8300	PQL	ug/Kg	J	Z
PYRENE	1300	J	830	MDL	8300	PQL	ug/Kg	J	Z

Sample ID: SL-027-SA5DS-SS-0.0-0.5		Collected: 9/26/2011 9:25:00		Analysis Type: RES-ACID				Dilution: 5	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	840	U	840	MDL	2500	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	SYOA								
Method:	8270C			Matrix: SO					

Sample ID: SL-028-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 10:50:00			Analysis Type: RES-ACID		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	500	PQL	ug/Kg	UJ	L
PHENOL	18	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-028-SA7-SB-8.0-9.0			Collected: 9/23/2011 2:14:00			Analysis Type: RES-ACID		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	L

Sample ID: SL-029-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 11:10:00			Analysis Type: RES-ACID		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
PHENOL	18	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-030-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 11:25:00			Analysis Type: RES-ACID		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

Sample ID: SL-031-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 11:50:00			Analysis Type: RES-ACID		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	17	MDL	340	PQL	ug/Kg	J	Z
PHENOL	20	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-032-SA5DS-SS-0.0-0.5			Collected: 9/26/2011 12:10:00			Analysis Type: RES-ACID		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
PHENOL	18	J	17	MDL	170	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: DUP01-SA5DS-QC-092611 Collected: 9/26/2011 3:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, FD
CHRYSENE	0.75	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-octylphthalate	6.0	U	6.0	MDL	18	PQL	ug/Kg	UJ	FD

Sample ID: SL-001-SA3-SS-0.0-0.5 Collected: 9/26/2011 7:50:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	5.9	J	5.9	MDL	18	PQL	ug/Kg	J	Z
CHRYSENE	0.97	J	0.33	MDL	1.6	PQL	ug/Kg	J	Z
FLUORANTHENE	1.2	J	0.66	MDL	1.6	PQL	ug/Kg	J	Z
PYRENE	1.1	J	0.66	MDL	1.6	PQL	ug/Kg	J	Z

Sample ID: SL-001-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 3:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	3.2		0.67	MDL	1.7	PQL	ug/Kg	J	FD
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.0	MDL	18	PQL	ug/Kg	J	Z, Q
CHRYSENE	0.49	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-octylphthalate	6.9	J	6.0	MDL	18	PQL	ug/Kg	J	Z, FD

Sample ID: SL-002-SA3-SS-0.0-0.5 Collected: 9/26/2011 8:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.66	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	0.36	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.1	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.0	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.1	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.80	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	1.2	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-002-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 2:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.70	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA		
Method:	8270C SIM	Matrix:	SO

Sample ID: SL-002-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 2:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.96	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.1	J	6.0	MDL	18	PQL	ug/Kg	J	Z
Di-n-octylphthalate	11	J	6.0	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.88	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	1.3	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-026-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 10:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.48	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.0	J	6.0	MDL	18	PQL	ug/Kg	J	Z
NAPHTHALENE	0.99	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-027-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 9:25:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	3.9	J	3.3	MDL	8.4	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	33	J	30	MDL	90	PQL	ug/Kg	J	Z
PHENANTHRENE	4.5	J	3.3	MDL	8.4	PQL	ug/Kg	J	Z
PYRENE	7.4	J	3.3	MDL	8.4	PQL	ug/Kg	J	Z

Sample ID: SL-028-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 10:50:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.80	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.1	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.72	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.1	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	0.86	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.82	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: SL-029-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 11:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.2	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.2	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.2	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.5	J	6.2	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.76	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-030-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 11:25:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.1	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.94	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.99	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-032-SA5DS-SS-0.0-0.5 Collected: 9/26/2011 12:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.84	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	0.81	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	0.57	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.3	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-octylphthalate	9.6	J	6.1	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	1.5	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE253

Method Blank Outlier Report

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P26908EB220703	10/3/2011 7:03:00 AM	CALCIUM IRON PHOSPHORUS TIN	3.28 mg/Kg 3.68 mg/Kg 1.15 mg/Kg 1.39 mg/Kg	SL-028-SA7-SB-8.0-9.0
P27108AB220719	10/7/2011 7:19:00 AM	BORON MANGANESE PHOSPHORUS STRONTIUM TIN	0.527 mg/Kg 0.0430 mg/Kg 1.09 mg/Kg 0.0680 mg/Kg 1.38 mg/Kg	DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5
P27108AB221351	10/10/2011 1:51:00 PM	ALUMINUM	8.80 mg/Kg	DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5
P27108AB221731	10/7/2011 5:31:00 PM	CALCIUM IRON MAGNESIUM	7.97 mg/Kg 12.9 mg/Kg 1.96 mg/Kg	DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5
P27708BB220741	10/5/2011 7:41:00 AM	TITANIUM	0.0840 mg/Kg	SL-028-SA7-SB-8.0-9.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP01-SA5DS-QC-092611(REA)	TIN	2.90 mg/Kg	2.90U mg/Kg
SL-001-SA3-SS-0.0-0.5(REA)	TIN	3.17 mg/Kg	3.17U mg/Kg
SL-001-SA5DS-SS-0.0-0.5(REA)	TIN	3.00 mg/Kg	3.00U mg/Kg
SL-002-SA3-SS-0.0-0.5(REA)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-002-SA5DS-SS-0.0-0.5(REA)	TIN	3.06 mg/Kg	3.06U mg/Kg
SL-026-SA5DS-SS-0.0-0.5(REA)	TIN	2.20 mg/Kg	2.20U mg/Kg
SL-027-SA5DS-SS-0.0-0.5(REA)	TIN	2.63 mg/Kg	2.63U mg/Kg
SL-028-SA5DS-SS-0.0-0.5(REA)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-028-SA7-SB-8.0-9.0(RES)	TIN	2.53 mg/Kg	2.53U mg/Kg
SL-029-SA5DS-SS-0.0-0.5(REA)	TIN	3.12 mg/Kg	3.12U mg/Kg
SL-030-SA5DS-SS-0.0-0.5(REA)	TIN	3.08 mg/Kg	3.08U mg/Kg
SL-031-SA5DS-SS-0.0-0.5(REA)	TIN	3.21 mg/Kg	3.21U mg/Kg

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-032-SA5DS-SS-0.0-0.5(REA)	TIN	3.07 mg/Kg	3.07U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P26926AB220448A	10/4/2011 4:48:00 AM	LEAD	0.0329 mg/Kg	SL-028-SA7-SB-8.0-9.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-001-SA5DS-SS-0.0-0.5 MS SL-001-SA5DS-SS-0.0-0.5 MSD (SL-001-SA5DS-SS-0.0-0.5)	2,4-D	229	-	17.00-180.00	114 (35.00)	2,4-D	J (all detects)
SL-001-SA5DS-SS-0.0-0.5 MS SL-001-SA5DS-SS-0.0-0.5 MSD (SL-001-SA5DS-SS-0.0-0.5)	2,4,5-TP (Silvex) 2,4-DB DALAPON DICAMBA DICHLOROPROP DINOSEB MCPA MCPP	0 0 - 0 0 0 0 0	0 0 0 0 6 0 0	24.00-141.00 10.00-201.00 10.00-125.00 10.00-190.00 33.00-178.00 10.00-46.00 10.00-213.00 10.00-184.00	- - 200 (50.00) - - 200 (35.00) - -	2,4,5-TP (Silvex) 2,4-DB DALAPON DICAMBA DICHLOROPROP DINOSEB MCPA MCPP	J(all detects) R(all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-001-SA5DS-SS-0.0-0.5 MS SL-001-SA5DS-SS-0.0-0.5 MSD (SL-001-SA5DS-SS-0.0-0.5)	4,4'-DDD ENDRIN ALDEHYDE	0 0	- -	16.00-163.00 10.00-148.00	200 (50.00) -	4,4'-DDD ENDRIN ALDEHYDE	J(all detects) R(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-001-SA5DS-SS-0.0-0.5 MS SL-001-SA5DS-SS-0.0-0.5 MSD (DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5)	ARSENIC CADMIUM CHROMIUM COPPER NICKEL SILVER THALLIUM VANADIUM ZINC	187 143 181 131 147 139 134 213 -	150 143 164 134 143 140 141 202 131	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - - - -	ARSENIC CADMIUM CHROMIUM COPPER NICKEL SILVER THALLIUM VANADIUM ZINC	J(all detects) Cr, V, Zn No Qual, >4x
SL-001-SA5DS-SS-0.0-0.5 MS (DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5)	LEAD	7	-	75.00-125.00	-	LEAD	No Qual, >4x

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-001-SA5DS-SS-0.0-0.5 MS SL-001-SA5DS-SS-0.0-0.5 MSD (DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5)	ANTIMONY	54	50	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-001-SA5DS-SS-0.0-0.5 MS SL-001-SA5DS-SS-0.0-0.5 MSD (DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5)	SELENIUM	137	135	75.00-125.00	-	SELENIUM	J(all detects)
SL-001-SA5DS-SS-0.0-0.5 MS SL-001-SA5DS-SS-0.0-0.5 MSD (DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5)	MOLYBDENUM	145	147	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-001-SA5DS-SS-0.0-0.5 MS SL-001-SA5DS-SS-0.0-0.5 MSD (DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5)	BARIUM	133	131	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-001-SA5DS-SS-0.0-0.5 MS	ALUMINUM	948	956	75.00-125.00	-	ALUMINUM	No Qual, >4x
SL-001-SA5DS-SS-0.0-0.5	CALCIUM	335	259	75.00-125.00	-	CALCIUM	
MSD	IRON	330	763	75.00-125.00	-	IRON	
(DUP01-SA5DS-QC-092611	MAGNESIUM	144	192	75.00-125.00	-	MAGNESIUM	
SL-001-SA3-SS-0.0-0.5	TITANIUM	529	548	75.00-125.00	-	TITANIUM	
SL-001-SA5DS-SS-0.0-0.5							
SL-002-SA3-SS-0.0-0.5							
SL-002-SA5DS-SS-0.0-0.5							
SL-026-SA5DS-SS-0.0-0.5							
SL-027-SA5DS-SS-0.0-0.5							
SL-028-SA5DS-SS-0.0-0.5							
SL-029-SA5DS-SS-0.0-0.5							
SL-030-SA5DS-SS-0.0-0.5							
SL-031-SA5DS-SS-0.0-0.5							
SL-032-SA5DS-SS-0.0-0.5)							

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-001-SA5DS-SS-0.0-0.5 MS (SL-001-SA5DS-SS-0.0-0.5)	BIS(2-ETHYLHEXYL)PHTHALAT	197	-	39.00-167.00	-	BIS(2-ETHYLHEXYL)PHTHALA	J(all detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-001-SA5DS-SS-0.0-0.5 MS (SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5)	FLUORIDE	50	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)
SL-032-SA5DS-SS-0.0-0.5MS (DUP01-SA5DS-QC-092611 SL-032-SA5DS-SS-0.0-0.5)	FLUORIDE	76	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-001-SA5DS-SS-0.0-0.5 MSD (SL-001-SA5DS-SS-0.0-0.5)	2,4-DINITROPHENOL BENZOIC ACID PENTACHLOROPHENOL	- - -	- - -	20.00-143.00 10.00-173.00 28.00-127.00	36 (30.00) 34 (30.00) 39 (30.00)	2,4-DINITROPHENOL BENZOIC ACID PENTACHLOROPHENOL	J(all detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-001-SA5DS-SS-0.0-0.5 MS SL-001-SA5DS-SS-0.0-0.5 MSD (SL-001-SA5DS-SS-0.0-0.5)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-032-SA5DS-SS-0.0-0.5DUP (DUP01-SA5DS-QC-092611 SL-032-SA5DS-SS-0.0-0.5)	FLUORIDE	42	20.00	No Qual, OK by Difference
SL-001-SA5DS-SS-0.0-0.5 DUP (SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5)	FLUORIDE	27	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-001-SA5DS-SS-0.0-0.5 DUP (DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5)	CADMIUM	24	20.00	No Qual, OK by Difference

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-001-SA5DS-SS-0.0-0.5 DUP (DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5)	MERCURY	200	20.00	No Qual, OK by Difference

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12773AQ242124A (DUP01 -SA5DS -QC -092611 SL -001 -SA3 -SS -0.0 -0.5 SL -001 -SA5DS -SS -0.0 -0.5 SL -002 -SA3 -SS -0.0 -0.5 SL -002 -SA5DS -SS -0.0 -0.5 SL -026 -SA5DS -SS -0.0 -0.5 SL -027 -SA5DS -SS -0.0 -0.5 SL -028 -SA5DS -SS -0.0 -0.5 SL -029 -SA5DS -SS -0.0 -0.5 SL -030 -SA5DS -SS -0.0 -0.5 SL -031 -SA5DS -SS -0.0 -0.5 SL -032 -SA5DS -SS -0.0 -0.5)	DINOSEB	9	-	10.00-36.00	-	DINOSEB	J (all detects) R (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P26926AQ220450A (SL-028 -SA7 -SB-8.0-9.0)	ANTIMONY	65	-	80.00-120.00	-	ANTIMONY	No Qual, SRM Within QC Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P26908EQ220707 (SL-028 -SA7 -SB-8.0-9.0)	ALUMINUM	138	-	80.00-120.00	-	ALUMINUM	No Qual, SRM Within QC Limits
P27108AQ220723 P27108AQ221735 (DUP01 -SA5DS -QC -092611 SL -001 -SA3 -SS -0.0 -0.5 SL -001 -SA5DS -SS -0.0 -0.5 SL -002 -SA3 -SS -0.0 -0.5 SL -002 -SA5DS -SS -0.0 -0.5 SL -026 -SA5DS -SS -0.0 -0.5 SL -027 -SA5DS -SS -0.0 -0.5 SL -028 -SA5DS -SS -0.0 -0.5 SL -029 -SA5DS -SS -0.0 -0.5 SL -030 -SA5DS -SS -0.0 -0.5 SL -031 -SA5DS -SS -0.0 -0.5 SL -032 -SA5DS -SS -0.0 -0.5)	ALUMINUM IRON MAGNESIUM	143 140 122	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON MAGNESIUM	No Qual, SRM Within QC Limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7LCLCSQ262217 (DUP01 - SA5DS - QC - 092611 SL -001 - SA3 - SS - 0.0 - 0.5 SL -001 - SA5DS - SS - 0.0 - 0.5 SL -002 - SA3 - SS - 0.0 - 0.5 SL -002 - SA5DS - SS - 0.0 - 0.5 SL -026 - SA5DS - SS - 0.0 - 0.5 SL -027 - SA5DS - SS - 0.0 - 0.5 SL -028 - SA5DS - SS - 0.0 - 0.5 SL -028 - SA7 - SB - 8.0 - 9.0 SL -029 - SA5DS - SS - 0.0 - 0.5 SL -030 - SA5DS - SS - 0.0 - 0.5 SL -031 - SA5DS - SS - 0.0 - 0.5 SL -032 - SA5DS - SS - 0.0 - 0.5)	4,6-DINITRO-2-METHYLPHENOL	43	-	46.00-120.00	-	4,6-DINITRO-2-METHYLPHEN	J(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method: 8081A
Matrix: SO

<i>Sample ID</i>	<i>Surrogate</i>	<i>Sample % Recovery</i>	<i>% Recovery Limits</i>	<i>Affected Compounds</i>	<i>Flag</i>
SL-001-SA3-SS-0.0-0.5	DECACHLOROBIPHENYL	123	20.00-120.00	All Target Analytes	J (all detects)
SL-028-SA5DS-SS-0.0-0.5	DECACHLOROBIPHENYL	145	20.00-120.00	All Target Analytes	No Qual, Diluted Out

Field Duplicate RPD Report

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA5DS-SS-0.0-0.5	DUP01-SA5DS-QC-092611			
MOISTURE	0.67	0.73	9		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA5DS-SS-0.0-0.5	DUP01-SA5DS-QC-092611			
FLUORIDE	4.6	2.9	45	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA5DS-SS-0.0-0.5	DUP01-SA5DS-QC-092611			
ALUMINUM	12200	12200	0	50.00	No Qualifiers Applied
BORON	7.49	6.86	9	50.00	
CALCIUM	5160	5090	1	50.00	
IRON	22900	23700	3	50.00	
LITHIUM	16.2	18.2	12	50.00	
MAGNESIUM	5630	5790	3	50.00	
MANGANESE	305	308	1	50.00	
PHOSPHORUS	878	879	0	50.00	
POTASSIUM	1760	1630	8	50.00	
SODIUM	124	109	13	50.00	
STRONTIUM	22.0	22.4	2	50.00	
TIN	3.00	2.90	3	50.00	
TITANIUM	1240	1160	7	50.00	
Zirconium	12.5	8.12	42	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA5DS-SS-0.0-0.5	DUP01-SA5DS-QC-092611			
ANTIMONY	0.436	0.430	1	50.00	No Qualifiers Applied
ARSENIC	7.36	8.99	20	50.00	
BARIUM	69.4	98.1	34	50.00	
BERYLLIUM	0.401	0.397	1	50.00	
CADMIUM	0.294	0.351	18	50.00	
CHROMIUM	54.1	63.1	15	50.00	
COBALT	7.42	11.7	45	50.00	
COPPER	7.37	8.84	18	50.00	
LEAD	40.1	48.0	18	50.00	
MOLYBDENUM	0.757	0.906	18	50.00	
NICKEL	14.0	19.4	32	50.00	
SELENIUM	0.257	0.275	7	50.00	
SILVER	0.0372	0.0541	37	50.00	
THALLIUM	0.172	0.197	14	50.00	
VANADIUM	98.1	118	18	50.00	
ZINC	72.7	82.3	12	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA5DS-SS-0.0-0.5	DUP01-SA5DS-QC-092611			
MERCURY	0.0133	0.0115	15	50.00	No Qualifiers Applied

Method: 8081A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA5DS-SS-0.0-0.5	DUP01-SA5DS-QC-092611			
4,4'-DDE	0.52	0.70	30	50.00	No Qualifiers Applied
4,4'-DDT	1.2	1.5	22	50.00	
ENDRIN ALDEHYDE	0.43	0.51	17	50.00	
Chlordane	2.0	5.3	90	50.00	J(all detects) UJ(all non-detects)
DELTA-BHC	0.17 U	0.48	200	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA5DS-SS-0.0-0.5	DUP01-SA5DS-QC-092611			
AROCLOR 1254	8.0	4.9	48	50.00	No Qualifiers Applied
AROCLOR 1260	7.7	5.9	26	50.00	
Aroclor 5460	2.4	7.4	102	50.00	J(all detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA5DS-SS-0.0-0.5	DUP01-SA5DS-QC-092611			
CHRYSENE	0.49	0.75	42	50.00	No Qualifiers Applied
BENZO(B)FLUORANTHENE	3.2	1.1	98	50.00	J(all detects) UJ(all non-detects)
Di-n-octylphthalate	6.9	18 U	200	50.00	

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA5DS-SS-0.0-0.5	DUP01-SA5DS-QC-092611			
PHENOL	170 U	18	200	50.00	J(all detects) UJ(all non-detects)

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA5DS-SS-0.0-0.5	DUP01-SA5DS-QC-092611			
PH	6.04	6.51	7	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA5DS-QC-092611	TIN	J	2.90	9.88	PQL	mg/Kg	J (all detects)
SL-001-SA3-SS-0.0-0.5	SODIUM	J	87.8	98.0	PQL	mg/Kg	J (all detects)
	TIN	J	3.17	9.80	PQL	mg/Kg	
	Zirconium	J	2.95	4.90	PQL	mg/Kg	
SL-001-SA5DS-SS-0.0-0.5	TIN	J	3.00	10.1	PQL	mg/Kg	J (all detects)
SL-002-SA3-SS-0.0-0.5	SODIUM	J	74.5	97.1	PQL	mg/Kg	J (all detects)
	TIN	J	2.78	9.71	PQL	mg/Kg	
	Zirconium	J	2.40	4.85	PQL	mg/Kg	
SL-002-SA5DS-SS-0.0-0.5	TIN	J	3.06	10.0	PQL	mg/Kg	J (all detects)
SL-026-SA5DS-SS-0.0-0.5	TIN	J	2.20	9.85	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.89	4.92	PQL	mg/Kg	
SL-027-SA5DS-SS-0.0-0.5	TIN	J	2.63	9.83	PQL	mg/Kg	J (all detects)
SL-028-SA5DS-SS-0.0-0.5	TIN	J	3.05	9.76	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.42	4.88	PQL	mg/Kg	
SL-028-SA7-SB-8.0-9.0	TIN	J	2.53	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.771	5.30	PQL	mg/Kg	
SL-029-SA5DS-SS-0.0-0.5	TIN	J	3.12	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.39	5.12	PQL	mg/Kg	
SL-030-SA5DS-SS-0.0-0.5	TIN	J	3.08	10.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.54	5.06	PQL	mg/Kg	
SL-031-SA5DS-SS-0.0-0.5	TIN	J	3.21	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.13	5.18	PQL	mg/Kg	
SL-032-SA5DS-SS-0.0-0.5	TIN	J	3.07	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.88	5.11	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA5DS-QC-092611	SELENIUM	J	0.275	0.403	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0541	0.101	PQL	mg/Kg	
SL-001-SA3-SS-0.0-0.5	ANTIMONY	J	0.122	0.196	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.145	0.392	PQL	mg/Kg	
	SILVER	J	0.0759	0.0980	PQL	mg/Kg	
SL-001-SA5DS-SS-0.0-0.5	SELENIUM	J	0.257	0.395	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0372	0.0987	PQL	mg/Kg	
SL-002-SA3-SS-0.0-0.5	ANTIMONY	J	0.141	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.132	0.396	PQL	mg/Kg	
	SILVER	J	0.0809	0.0990	PQL	mg/Kg	
SL-002-SA5DS-SS-0.0-0.5	SELENIUM	J	0.294	0.405	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0472	0.101	PQL	mg/Kg	
SL-026-SA5DS-SS-0.0-0.5	ANTIMONY	J	0.102	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.154	0.398	PQL	mg/Kg	
	SILVER	J	0.0205	0.0994	PQL	mg/Kg	
SL-027-SA5DS-SS-0.0-0.5	ANTIMONY	J	0.194	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.282	0.397	PQL	mg/Kg	
SL-028-SA5DS-SS-0.0-0.5	ANTIMONY	J	0.145	0.195	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.144	0.391	PQL	mg/Kg	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-028-SA7-SB-8.0-9.0	CADMIUM	J	0.0722	0.103	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0969	0.412	PQL	mg/Kg	
	SILVER	J	0.0176	0.103	PQL	mg/Kg	
SL-029-SA5DS-SS-0.0-0.5	SILVER	J	0.0472	0.101	PQL	mg/Kg	J (all detects)
SL-030-SA5DS-SS-0.0-0.5	ANTIMONY	J	0.182	0.202	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0488	0.101	PQL	mg/Kg	
SL-031-SA5DS-SS-0.0-0.5	SILVER	J	0.0554	0.101	PQL	mg/Kg	J (all detects)
SL-032-SA5DS-SS-0.0-0.5	SILVER	J	0.0435	0.101	PQL	mg/Kg	J (all detects)

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-026-SA5DS-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.34	1.0	PQL	mg/Kg	J (all detects)
SL-028-SA5DS-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.38	1.0	PQL	mg/Kg	J (all detects)
SL-028-SA7-SB-8.0-9.0	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)
SL-031-SA5DS-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.38	1.0	PQL	mg/Kg	J (all detects)
SL-032-SA5DS-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.37	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA5DS-QC-092611	MERCURY	J	0.0115	0.0943	PQL	mg/Kg	J (all detects)
SL-001-SA5DS-SS-0.0-0.5	MERCURY	J	0.0133	0.0997	PQL	mg/Kg	J (all detects)
SL-002-SA5DS-SS-0.0-0.5	MERCURY	J	0.0222	0.0979	PQL	mg/Kg	J (all detects)
SL-028-SA5DS-SS-0.0-0.5	MERCURY	J	0.0095	0.0996	PQL	mg/Kg	J (all detects)
SL-029-SA5DS-SS-0.0-0.5	MERCURY	J	0.0076	0.0964	PQL	mg/Kg	J (all detects)
SL-030-SA5DS-SS-0.0-0.5	MERCURY	J	0.0145	0.100	PQL	mg/Kg	J (all detects)
SL-031-SA5DS-SS-0.0-0.5	MERCURY	J	0.0130	0.100	PQL	mg/Kg	J (all detects)

Method: 8081A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA3-SS-0.0-0.5	Chlordane	J	2.4	3.4	PQL	ug/Kg	J (all detects)
SL-001-SA5DS-SS-0.0-0.5	Chlordane	J	2.0	3.4	PQL	ug/Kg	J (all detects)
SL-002-SA3-SS-0.0-0.5	Chlordane	J	1.7	3.4	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method: 8081A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA5DS-SS-0.0-0.5	BETA-BHC	J	0.14	0.17	PQL	ug/Kg	J (all detects)
	DELTA-BHC	J	0.052	0.17	PQL	ug/Kg	
	gamma-BHC (Lindane)	J	0.040	0.17	PQL	ug/Kg	
SL-027-SA5DS-SS-0.0-0.5	4,4'-DDE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	4,4'-DDT	J	1.3	1.7	PQL	ug/Kg	
SL-028-SA5DS-SS-0.0-0.5	Chlordane	J	10	17	PQL	ug/Kg	J (all detects)
SL-029-SA5DS-SS-0.0-0.5	Chlordane	J	3.3	3.5	PQL	ug/Kg	J (all detects)
SL-030-SA5DS-SS-0.0-0.5	ALPHA-BHC	J	0.090	0.17	PQL	ug/Kg	J (all detects)
	Chlordane	J	3.4	3.5	PQL	ug/Kg	
	ENDOSULFAN I	J	0.089	0.17	PQL	ug/Kg	
SL-032-SA5DS-SS-0.0-0.5	Chlordane	J	2.6	3.5	PQL	ug/Kg	J (all detects)
	gamma-BHC (Lindane)	J	0.057	0.17	PQL	ug/Kg	
	METHOXYCHLOR	J	0.81	1.7	PQL	ug/Kg	

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA3-SS-0.0-0.5	AROCLOR 1254	J	0.53	1.7	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.3	1.7	PQL	ug/Kg	
	Aroclor 5460	J	3.0	3.3	PQL	ug/Kg	
SL-001-SA5DS-SS-0.0-0.5	Aroclor 5460	J	2.4	3.3	PQL	ug/Kg	J (all detects)
SL-002-SA3-SS-0.0-0.5	AROCLOR 1254	J	1.3	1.7	PQL	ug/Kg	J (all detects)
SL-002-SA5DS-SS-0.0-0.5	Aroclor 5460	J	3.3	3.4	PQL	ug/Kg	J (all detects)
SL-028-SA5DS-SS-0.0-0.5	AROCLOR 1260	J	0.98	1.7	PQL	ug/Kg	J (all detects)
SL-030-SA5DS-SS-0.0-0.5	AROCLOR 1260	J	1.3	1.7	PQL	ug/Kg	J (all detects)

Method: 8151A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA3-SS-0.0-0.5	DICHLOROPROP	J	1.6	1.7	PQL	ug/Kg	J (all detects)
SL-002-SA3-SS-0.0-0.5	2,4-D	J	2.5	3.6	PQL	ug/Kg	J (all detects)
SL-026-SA5DS-SS-0.0-0.5	DINOSEB	J	0.86	2.4	PQL	ug/Kg	J (all detects)
SL-028-SA5DS-SS-0.0-0.5	MCPA	J	120	250	PQL	ug/Kg	J (all detects)
SL-029-SA5DS-SS-0.0-0.5	2,4-DB	J	1.7	1.8	PQL	ug/Kg	J (all detects)
SL-032-SA5DS-SS-0.0-0.5	2,4,5-T	J	0.15	0.17	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA5DS-QC-092611	BIS(2-ETHYLHEXYL)PHTHALATE	J	51	330	PQL	ug/Kg	J (all detects)
	PHENOL	J	18	170	PQL	ug/Kg	
SL-001-SA5DS-SS-0.0-0.5	FLUORANTHENE	J	36	170	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	35	170	PQL	ug/Kg	
	PYRENE	J	24	170	PQL	ug/Kg	
SL-002-SA3-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	83	330	PQL	ug/Kg	J (all detects)
SL-026-SA5DS-SS-0.0-0.5	BENZO(A)PYRENE	J	1400	8300	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1400	8300	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1100	8300	PQL	ug/Kg	
	CHRYSENE	J	1500	8300	PQL	ug/Kg	
	FLUORANTHENE	J	1100	8300	PQL	ug/Kg	
	PYRENE	J	1300	8300	PQL	ug/Kg	
SL-028-SA5DS-SS-0.0-0.5	PHENOL	J	18	170	PQL	ug/Kg	J (all detects)
SL-029-SA5DS-SS-0.0-0.5	PHENOL	J	18	170	PQL	ug/Kg	J (all detects)
SL-031-SA5DS-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	340	PQL	ug/Kg	J (all detects)
	PHENOL	J	20	170	PQL	ug/Kg	
SL-032-SA5DS-SS-0.0-0.5	PHENOL	J	18	170	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA5DS-QC-092611	BENZO(B)FLUORANTHENE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.75	1.7	PQL	ug/Kg	
SL-001-SA3-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	5.9	18	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.97	1.6	PQL	ug/Kg	
	FLUORANTHENE	J	1.2	1.6	PQL	ug/Kg	
	PYRENE	J	1.1	1.6	PQL	ug/Kg	
SL-001-SA5DS-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	18	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.49	1.7	PQL	ug/Kg	
	Di-n-octylphthalate	J	6.9	18	PQL	ug/Kg	
SL-002-SA3-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	0.66	1.7	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.36	1.7	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.1	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.0	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.1	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.80	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	1.2	1.7	PQL	ug/Kg	
SL-002-SA5DS-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	0.70	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.96	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.2	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.1	18	PQL	ug/Kg	
	Di-n-octylphthalate	J	11	18	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.88	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	1.3	1.7	PQL	ug/Kg	
SL-026-SA5DS-SS-0.0-0.5	ACENAPHTHYLENE	J	0.48	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	18	PQL	ug/Kg	
	NAPHTHALENE	J	0.99	1.7	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE253

Laboratory: LL

EDD Filename: DE253_v2.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-027-SA5DS-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	3.9	8.4	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	33	90	PQL	ug/Kg	
	PHENANTHRENE	J	4.5	8.4	PQL	ug/Kg	
	PYRENE	J	7.4	8.4	PQL	ug/Kg	
SL-028-SA5DS-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.80	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.1	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.72	1.7	PQL	ug/Kg	
	CHRYSENE	J	1.1	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	0.86	1.7	PQL	ug/Kg	
	PYRENE	J	0.82	1.7	PQL	ug/Kg	
SL-029-SA5DS-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.3	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.2	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.2	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	19	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.5	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.76	1.7	PQL	ug/Kg	
SL-030-SA5DS-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	18	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	0.94	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.99	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.4	1.7	PQL	ug/Kg	
SL-032-SA5DS-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	0.84	1.7	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.81	1.7	PQL	ug/Kg	
	ANTHRACENE	J	0.57	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.3	1.7	PQL	ug/Kg	
	Di-n-octylphthalate	J	9.6	18	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.4	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	1.5	1.7	PQL	ug/Kg	

LDC #: 26859W4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE253

ADR

Laboratory: Lancaster Laboratories

Date: 12/30/11

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Cr, Fe, Pb, Mg, Mn, Ti, V, Zn
VII.	Duplicate Sample Analysis	NA	Cd, Hg < 5X (1-15)
VIII.	Laboratory Control Samples (LCS)	NA	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Cr, Pb, Ni, V, Zn J/mg (1-15)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV.	Field Blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SL-001-SA3-SS-0.0-0.5	11	SL-032-SA5DS-SS-0.0-0.5	21	SL-001	31
2	SL-002-SA3-SS-0.0-0.5	12	DUP01-SA5DS-QC-092611	22		32
3	SL-002-SA5DS-SS-0.0-0.5	13	SL-001-SA5DS-SS-0.0-0.5MS	23		33
4	SL-001-SA5DS-SS-0.0-0.5	14	SL-001-SA5DS-SS-0.0-0.5MSD	24		34
5	SL-026-SA5DS-SS-0.0-0.5	15	SL-001-SA5DS-SS-0.0-0.5DUP	25		35
6	SL-027-SA5DS-SS-0.0-0.5	16	SL-028-SA7-SB-828-9.0	26		36
7	SL-028-SA5DS-SS-0.0-0.5	17		27		37
8	SL-029-SA5DS-SS-0.0-0.5	18		28		38
9	SL-030-SA5DS-SS-0.0-0.5	19		29		39
10	SL-031-SA5DS-SS-0.0-0.5	20		30		40

Notes: * # 16. batch with VE 251, (see VE 251 for MS/MSD + 146
qualifiers)

VALIDATION FINDINGS WORKSHEET

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
 Sample Concentration units, unless otherwise noted: mg/Kg
 Soil preparation factor applied: 100X
 Associated Samples: 16 Reason: B

Analyte	Maximum PB ^a (mg/Kg)	Maximum ICB/CCB ^a (ug/L)	Action Limit	16						
Zr		7.5	3.75	0.77						

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 1-6 Reason: B

Analyte	Maximum PB ^a (mg/Kg)	Maximum ICB/CCB ^a (ug/L)	Action Limit	1	2	5				
Zr		12.8	6.4	2.9	2.4	2.9				

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U". Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.



QUALITY ASSURANCE SUMMARY
 FORM 5A (MS/MSD)
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE
 SDG No.: DE253
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6419491BKG Matrix Spike Lab Sample ID: 6419492MS Matrix Spike Duplicate Lab Sample ID: 6419493MSD
 % Solids for Sample: 99.3
 Batch Id(s): P27108A, P27126A, P27111C

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MS Spike Added	MSD Spike Added	Units	MS		MSD		Control Limit	
		Result	C	Result	C	Result	C				%R	Q	%R	Q	%R	RPD
Aluminum	121	12168.5791		14058.4258		14074.8018		199.4157	199.4157	MG/KG	948	956	0	7	4X	20P
Antimony	121	0.4360		1.0850		1.0320		1.2085	1.1965	MG/KG	54 N	50 N	5	75	- 125	20MS
Arsenic	75	7.3633		11.1259		10.3577		2.0141	1.9942	MG/KG	187 N	150 N	7	75	- 125	20MS
Barium	137	69.4272		82.8399		82.4983		10.0705	9.9708	MG/KG	133	131	0	7	4X	20MS
Beryllium	9	0.4014		1.0512		1.0082		0.8056	0.7977	MG/KG	81	76	4	75	- 125	20MS
Boron		7.4884		191.7990		194.7903		199.4157	199.4157	MG/KG	92	94	2	84	- 115	20P
Cadmium	111	0.2944		1.7301		1.7158		1.0070	0.9971	MG/KG	143 N	143 N	1	75	- 125	20MS
Calcium		5159.4532		6497.2879		6192.8689		398.8314	398.8314	MG/KG	335	259	5	7	4X	20P
Chromium	52	54.1635		72.3666		70.5134		10.0705	9.9708	MG/KG	181	164	3	7	4X	20MS
Cobalt	59	7.4225		64.0483		63.8928		50.3525	49.8539	MG/KG	112	113	0	75	- 125	20MS
Copper	63	7.3673		20.6042		20.7392		10.0705	9.9708	MG/KG	131 N	134 N	1	75	- 125	20MS
Iron		22864.4179		23193.1969		23625.6678		99.7079	99.7079	MG/KG	330	763	2	7	4X	20P
Lead	208	40.0648		40.2618		43.5524		3.0211	2.9912	MG/KG	7	117	8	82	- 114	20P
Lithium		16.2296		112.4804		112.6878		99.7079	99.7079	MG/KG	97	97	0	7	4X	20P
Magnesium		5632.2256		5918.5716		6015.4428		199.4157	199.4157	MG/KG	144	192	2	7	4X	20P
Manganese		305.2860		357.6940		366.4014		49.8539	49.8539	MG/KG	105	123	2	7	4X	20P
Mercury	0.0133	B		0.1407		0.1643		0.1623	0.1651	MG/KG	78	91	15	65	- 135	20CV
Molybdenum	98	0.7573		15.3938		15.4148		10.0705	9.9708	MG/KG	145 N	147 N	0	75	- 125	20MS
Nickel	60	14.0533		28.8218		28.2971		10.0705	9.9708	MG/KG	147 N	143 N	2	75	- 125	20MS
Phosphorus		878.3323		980.7474		971.1236		99.7079	99.7079	MG/KG	103	93	1			20P
Potassium		1758.4713		2999.8046		3000.9053		997.0786	997.0786	MG/KG	124	125	0	75	- 125	20P
Selenium	78	0.2571	B	3.0232		2.9553		2.0141	1.9942	MG/KG	137 N	135 N	2	75	- 125	20MS
Silver	107	0.0372	B	14.0262		14.0349		10.0705	9.9708	MG/KG	139 N	140 N	0	75	- 125	20MS
Sodium		123.9537		1135.3813		1135.9038		997.0786	997.0786	MG/KG	101	101	0	75	- 125	20P
Strontium		21.9869		119.6634		121.0942		99.7079	99.7079	MG/KG	98	99	1	75	- 115	20P
Thallium	203	0.1719		0.7112		0.7340		0.4028	0.3988	MG/KG	134 N	141 N	3	75	- 125	20MS
Tin		3.0020	B	364.0164		366.1302		398.8314	398.8314	MG/KG	91	91	1	80	- 110	20P
Titanium		1242.7865		1769.9142		1788.7978		99.7079	99.7079	MG/KG	529	548	1	7	4X	20P
Vanadium	51	98.0985		119.5972		118.2136		10.0705	9.9708	MG/KG	213	202	1			20MS
Zinc	66	72.7248		85.1360		85.7687		10.0705	9.9708	MG/KG	123	131	1			20MS
Zirconium	90	12.5196		106.5239		106.2347		99.7079	99.7079	MG/KG	94	94	0	75	- 125	20P

METHODS: W
 P = ICP Atomic Emission Spectrometer CV = Cold Vapor
 MS = ICP Mass Spectrometry AF = Cold Vapor Atomic Fluorescence
 CONCENTRATION QUALIFIERS:
 U = Below MDL, B = Below LOQ
 FLAGS:
 N = Matrix Spike OOS, * = Duplicate OOS

SAMPLE DELIVERY GROUP

DE254

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Sep-2011	SL-102-SA7-SB-4.0-5.0	6419519	N	3050B	6010B	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0	6419519	N	3050B	6020	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0	6419519	N	3060A	7199	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0	6419519	N	3546	1625C	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0	6419519	N	3550B	8015B	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0	6419519	N	3550B	8015M	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0	6419519	N	3550B	8082	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0	6419519	N	3550B	8270C	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0	6419519	N	3550B	8270C SIM	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0	6419519	N	5035	8015M	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0	6419519	N	METHOD	300.0	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0	6419519	N	METHOD	314.0	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0	6419519	N	METHOD	7471A	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0	6419519	N	METHOD	8015B	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0	6419519	N	METHOD	8015M	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0	6419519	N	METHOD	8315A	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MS	6419520	MS	3050B	6010B	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MS	6419520	MS	3050B	6020	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MS	6419520	MS	3060A	7199	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MS	6419520	MS	3546	1625C	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MS	6419520	MS	3550B	8015B	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MS	6419520	MS	3550B	8015M	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MS	6419520	MS	3550B	8082	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MS	6419520	MS	3550B	8270C	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MS	6419520	MS	3550B	8270C SIM	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MS	6419520	MS	5035	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MS	6419520	MS	METHOD	300.0	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MS	6419520	MS	METHOD	314.0	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MS	6419520	MS	METHOD	7471A	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MS	6419520	MS	METHOD	8015B	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MS	6419520	MS	METHOD	8015M	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MS	6419520	MS	METHOD	8315A	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MSD	6419521	MSD	3050B	6010B	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MSD	6419521	MSD	3050B	6020	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MSD	6419521	MSD	3546	1625C	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MSD	6419521	MSD	3550B	8015B	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MSD	6419521	MSD	3550B	8015M	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MSD	6419521	MSD	3550B	8082	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MSD	6419521	MSD	3550B	8270C	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MSD	6419521	MSD	3550B	8270C SIM	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MSD	6419521	MSD	5035	8015M	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MSD	6419521	MSD	METHOD	7471A	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MSD	6419521	MSD	METHOD	8015B	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MSD	6419521	MSD	METHOD	8015M	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MSD	6419521	MSD	METHOD	8315A	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 DUP	6419522	DUP	3050B	6010B	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 DUP	6419522	DUP	3050B	6020	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 DUP	6419522	DUP	3060A	7199	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 DUP	6419522	DUP	METHOD	300.0	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 DUP	6419522	DUP	METHOD	314.0	III
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 DUP	6419522	DUP	METHOD	7471A	III
26-Sep-2011	SL-102-SA7-SB-9.0-10.0	6419525	N	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Sep-2011	SL-102-SA7-SB-9.0-10.0	6419525	N	3050B	6020	III
26-Sep-2011	SL-102-SA7-SB-9.0-10.0	6419525	N	3060A	7199	III
26-Sep-2011	SL-102-SA7-SB-9.0-10.0	6419525	N	3546	1625C	III
26-Sep-2011	SL-102-SA7-SB-9.0-10.0	6419525	N	3550B	8015B	III
26-Sep-2011	SL-102-SA7-SB-9.0-10.0	6419525	N	3550B	8015M	III
26-Sep-2011	SL-102-SA7-SB-9.0-10.0	6419525	N	3550B	8082	III
26-Sep-2011	SL-102-SA7-SB-9.0-10.0	6419525	N	3550B	8270C	III
26-Sep-2011	SL-102-SA7-SB-9.0-10.0	6419525	N	3550B	8270C SIM	III
26-Sep-2011	SL-102-SA7-SB-9.0-10.0	6419525	N	5035	8015M	III
26-Sep-2011	SL-102-SA7-SB-9.0-10.0	6419525	N	METHOD	300.0	III
26-Sep-2011	SL-102-SA7-SB-9.0-10.0	6419525	N	METHOD	314.0	III
26-Sep-2011	SL-102-SA7-SB-9.0-10.0	6419525	N	METHOD	7471A	III
26-Sep-2011	SL-102-SA7-SB-9.0-10.0	6419525	N	METHOD	8015B	III
26-Sep-2011	SL-102-SA7-SB-9.0-10.0	6419525	N	METHOD	8015M	III
26-Sep-2011	SL-102-SA7-SB-9.0-10.0	6419525	N	METHOD	8315A	III
26-Sep-2011	SL-109-SA7-SB-4.0-5.0	6419526	N	3050B	6010B	III
26-Sep-2011	SL-109-SA7-SB-4.0-5.0	6419526	N	3050B	6020	III
26-Sep-2011	SL-109-SA7-SB-4.0-5.0	6419526	N	3060A	7199	III
26-Sep-2011	SL-109-SA7-SB-4.0-5.0	6419526	N	3546	1625C	III
26-Sep-2011	SL-109-SA7-SB-4.0-5.0	6419526	N	3550B	8015B	III
26-Sep-2011	SL-109-SA7-SB-4.0-5.0	6419526	N	3550B	8015M	III
26-Sep-2011	SL-109-SA7-SB-4.0-5.0	6419526	N	3550B	8082	III
26-Sep-2011	SL-109-SA7-SB-4.0-5.0	6419526	N	3550B	8270C	III
26-Sep-2011	SL-109-SA7-SB-4.0-5.0	6419526	N	3550B	8270C SIM	III
26-Sep-2011	SL-109-SA7-SB-4.0-5.0	6419526	N	5035	8015M	III
26-Sep-2011	SL-109-SA7-SB-4.0-5.0	6419526	N	METHOD	300.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Sep-2011	SL-109-SA7-SB-4.0-5.0	6419526	N	METHOD	314.0	III
26-Sep-2011	SL-109-SA7-SB-4.0-5.0	6419526	N	METHOD	7471A	III
26-Sep-2011	SL-109-SA7-SB-4.0-5.0	6419526	N	METHOD	8015B	III
26-Sep-2011	SL-109-SA7-SB-4.0-5.0	6419526	N	METHOD	8015M	III
26-Sep-2011	SL-109-SA7-SB-4.0-5.0	6419526	N	METHOD	8315A	III
26-Sep-2011	SL-109-SA7-SB-9.0-10.0	6419527	N	3050B	6010B	III
26-Sep-2011	SL-109-SA7-SB-9.0-10.0	6419527	N	3050B	6020	III
26-Sep-2011	SL-109-SA7-SB-9.0-10.0	6419527	N	3060A	7199	III
26-Sep-2011	SL-109-SA7-SB-9.0-10.0	6419527	N	3546	1625C	III
26-Sep-2011	SL-109-SA7-SB-9.0-10.0	6419527	N	3550B	8015B	III
26-Sep-2011	SL-109-SA7-SB-9.0-10.0	6419527	N	3550B	8015M	III
26-Sep-2011	SL-109-SA7-SB-9.0-10.0	6419527	N	3550B	8082	III
26-Sep-2011	SL-109-SA7-SB-9.0-10.0	6419527	N	3550B	8270C	III
26-Sep-2011	SL-109-SA7-SB-9.0-10.0	6419527	N	3550B	8270C SIM	III
26-Sep-2011	SL-109-SA7-SB-9.0-10.0	6419527	N	5035	8015M	III
26-Sep-2011	SL-109-SA7-SB-9.0-10.0	6419527	N	METHOD	300.0	III
26-Sep-2011	SL-109-SA7-SB-9.0-10.0	6419527	N	METHOD	314.0	III
26-Sep-2011	SL-109-SA7-SB-9.0-10.0	6419527	N	METHOD	7471A	III
26-Sep-2011	SL-109-SA7-SB-9.0-10.0	6419527	N	METHOD	8015B	III
26-Sep-2011	SL-109-SA7-SB-9.0-10.0	6419527	N	METHOD	8015M	III
26-Sep-2011	SL-109-SA7-SB-9.0-10.0	6419527	N	METHOD	8315A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE254

Laboratory: LL

EDD Filename: DE254_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-102-SA7-SB-4.0-5.0	Collected: 9/26/2011 9:10:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.4		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-102-SA7-SB-9.0-10.0	Collected: 9/26/2011 9:30:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.5		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-109-SA7-SB-4.0-5.0	Collected: 9/26/2011 12:13:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.8		0.85	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.1	J	0.85	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-109-SA7-SB-9.0-10.0	Collected: 9/26/2011 12:20:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-102-SA7-SB-4.0-5.0	Collected: 9/26/2011 9:10:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.82	J	0.332	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.35	J	0.477	MDL	5.19	PQL	mg/Kg	U	B

Sample ID: SL-102-SA7-SB-9.0-10.0	Collected: 9/26/2011 9:30:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.02	J	0.368	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	4.98	J	0.528	MDL	5.74	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/6/2012 12:45:46 PM

ADR version 1.4.0.111

Page 1 of 12

Data Qualifier Summary

Lab Reporting Batch ID: DE254

Laboratory: LL

EDD Filename: DE254_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-109-SA7-SB-4.0-5.0 Collected: 9/26/2011 12:13:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.86	J	0.325	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.18	J	0.467	MDL	5.07	PQL	mg/Kg	U	B

Sample ID: SL-109-SA7-SB-9.0-10.0 Collected: 9/26/2011 12:20:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.73	J	0.344	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	2.32	J	0.494	MDL	5.37	PQL	mg/Kg	U	B

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-102-SA7-SB-4.0-5.0 Collected: 9/26/2011 9:10:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.133	J	0.0608	MDL	0.419	PQL	mg/Kg	J	Z, Q

Sample ID: SL-102-SA7-SB-4.0-5.0 Collected: 9/26/2011 9:10:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.592		0.0524	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-102-SA7-SB-4.0-5.0 Collected: 9/26/2011 9:10:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	100		0.111	MDL	0.419	PQL	mg/Kg	J	A

Sample ID: SL-102-SA7-SB-4.0-5.0 Collected: 9/26/2011 9:10:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.143	J	0.0776	MDL	0.210	PQL	mg/Kg	J	Z, Q
ARSENIC	5.43		0.0839	MDL	0.419	PQL	mg/Kg	J	Q
BERYLLIUM	0.765		0.0168	MDL	0.105	PQL	mg/Kg	J	Q
CADMIUM	0.0840	J	0.0461	MDL	0.105	PQL	mg/Kg	J	Z, Q
COBALT	6.22		0.0210	MDL	0.105	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE254

Laboratory: LL

EDD Filename: DE254_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS									
Method:	6020			Matrix: SO						

Sample ID: SL-102-SA7-SB-4.0-5.0			Collected: 9/26/2011 9:10:00			Analysis Type: RES		Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
COPPER	8.32		0.0839	MDL	0.419	PQL	mg/Kg	J	Q	
LEAD	6.21		0.0107	MDL	0.210	PQL	mg/Kg	J	Q, A	
NICKEL	12.2		0.105	MDL	0.419	PQL	mg/Kg	J	Q	
SILVER	0.0211	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z, Q	
THALLIUM	0.356		0.0314	MDL	0.105	PQL	mg/Kg	J	Q	
VANADIUM	42.3		0.0231	MDL	0.105	PQL	mg/Kg	J	A	

Sample ID: SL-102-SA7-SB-9.0-10.0			Collected: 9/26/2011 9:30:00			Analysis Type: REA		Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
SELENIUM	0.137	J	0.0653	MDL	0.451	PQL	mg/Kg	J	Z, Q	

Sample ID: SL-102-SA7-SB-9.0-10.0			Collected: 9/26/2011 9:30:00			Analysis Type: REA2		Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
MOLYBDENUM	0.759		0.0563	MDL	0.113	PQL	mg/Kg	J	Q	

Sample ID: SL-102-SA7-SB-9.0-10.0			Collected: 9/26/2011 9:30:00			Analysis Type: REA3		Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
BARIUM	169		0.119	MDL	0.451	PQL	mg/Kg	J	A	

Sample ID: SL-102-SA7-SB-9.0-10.0			Collected: 9/26/2011 9:30:00			Analysis Type: RES		Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
ANTIMONY	0.275		0.0833	MDL	0.225	PQL	mg/Kg	J	Q	
ARSENIC	7.05		0.0901	MDL	0.451	PQL	mg/Kg	J	Q	
BERYLLIUM	1.00		0.0180	MDL	0.113	PQL	mg/Kg	J	Q	
CADMIUM	0.291		0.0496	MDL	0.113	PQL	mg/Kg	J	Q	
COBALT	13.0		0.0225	MDL	0.113	PQL	mg/Kg	J	Q, A	
COPPER	18.4		0.0901	MDL	0.451	PQL	mg/Kg	J	Q	
LEAD	10.5		0.0115	MDL	0.225	PQL	mg/Kg	J	Q, A	
NICKEL	25.8		0.113	MDL	0.451	PQL	mg/Kg	J	Q	
SILVER	0.0510	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z, Q	
THALLIUM	0.430		0.0338	MDL	0.113	PQL	mg/Kg	J	Q	

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE254

Laboratory: LL

EDD Filename: DE254_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS									
Method:	6020			Matrix: SO						

Sample ID: SL-102-SA7-SB-9.0-10.0 Collected: 9/26/2011 9:30:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	76.8		0.0248	MDL	0.113	PQL	mg/Kg	J	A

Sample ID: SL-109-SA7-SB-4.0-5.0 Collected: 9/26/2011 12:13:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0588	MDL	0.406	PQL	mg/Kg	J	Z, Q

Sample ID: SL-109-SA7-SB-4.0-5.0 Collected: 9/26/2011 12:13:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.496		0.0507	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-109-SA7-SB-4.0-5.0 Collected: 9/26/2011 12:13:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	109		0.108	MDL	0.406	PQL	mg/Kg	J	A

Sample ID: SL-109-SA7-SB-4.0-5.0 Collected: 9/26/2011 12:13:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0824	J	0.0751	MDL	0.203	PQL	mg/Kg	J	Z, Q
ARSENIC	5.09		0.0812	MDL	0.406	PQL	mg/Kg	J	Q
BERYLLIUM	0.611		0.0162	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.121		0.0446	MDL	0.101	PQL	mg/Kg	J	Q
COBALT	6.41		0.0203	MDL	0.101	PQL	mg/Kg	J	Q, A
COPPER	8.31		0.0812	MDL	0.406	PQL	mg/Kg	J	Q
LEAD	5.35		0.0103	MDL	0.203	PQL	mg/Kg	J	Q, A
NICKEL	12.2		0.101	MDL	0.406	PQL	mg/Kg	J	Q
SILVER	0.0190	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.315		0.0304	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	40.7		0.0223	MDL	0.101	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE254

Laboratory: LL

EDD Filename: DE254_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-109-SA7-SB-9.0-10.0	Collected: 9/26/2011 12:20:00	Analysis Type: REA	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0885	J	0.0623	MDL	0.430	PQL	mg/Kg	J	Z, Q

Sample ID: SL-109-SA7-SB-9.0-10.0	Collected: 9/26/2011 12:20:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.488		0.0537	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-109-SA7-SB-9.0-10.0	Collected: 9/26/2011 12:20:00	Analysis Type: REA3	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	85.5		0.114	MDL	0.430	PQL	mg/Kg	J	A

Sample ID: SL-109-SA7-SB-9.0-10.0	Collected: 9/26/2011 12:20:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.128	J	0.0795	MDL	0.215	PQL	mg/Kg	J	Z, Q
ARSENIC	4.83		0.0859	MDL	0.430	PQL	mg/Kg	J	Q
BERYLLIUM	0.637		0.0172	MDL	0.107	PQL	mg/Kg	J	Q
CADMIUM	0.107	J	0.0472	MDL	0.107	PQL	mg/Kg	J	Q
COBALT	6.36		0.0215	MDL	0.107	PQL	mg/Kg	J	Q, A
COPPER	7.86		0.0859	MDL	0.430	PQL	mg/Kg	J	Q
LEAD	5.75		0.0110	MDL	0.215	PQL	mg/Kg	J	Q, A
NICKEL	11.7		0.107	MDL	0.430	PQL	mg/Kg	J	Q
SILVER	0.0423	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.271		0.0322	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	39.6		0.0236	MDL	0.107	PQL	mg/Kg	J	A

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-102-SA7-SB-9.0-10.0	Collected: 9/26/2011 9:30:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.61	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE254

Laboratory: LL

EDD Filename: DE254_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS									
Method:	7199								Matrix:	SO

Sample ID: SL-109-SA7-SB-9.0-10.0	Collected: 9/26/2011 12:20:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category:	METALS									
Method:	7471A								Matrix:	SO

Sample ID: SL-102-SA7-SB-4.0-5.0	Collected: 9/26/2011 9:10:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0121	J	0.0073	MDL	0.103	PQL	mg/Kg	UJ	B, FD

Sample ID: SL-102-SA7-SB-9.0-10.0	Collected: 9/26/2011 9:30:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0116	J	0.0079	MDL	0.112	PQL	mg/Kg	U	B

Sample ID: SL-109-SA7-SB-9.0-10.0	Collected: 9/26/2011 12:20:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0106	J	0.0074	MDL	0.105	PQL	mg/Kg	U	B

Method Category:	SVOA									
Method:	8015M								Matrix:	SO

Sample ID: SL-102-SA7-SB-4.0-5.0	Collected: 9/26/2011 9:10:00	Analysis Type: REA	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: SL-102-SA7-SB-4.0-5.0	Collected: 9/26/2011 9:10:00	Analysis Type: REA2	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	2.1		0.42	MDL	1.3	PQL	mg/Kg	UJ	Q, B
EFH (C30-C40)	5.5		0.42	MDL	1.3	PQL	mg/Kg	UJ	Q, B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE254

Laboratory: LL

EDD Filename: DE254_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-102-SA7-SB-9.0-10.0	Collected: 9/26/2011 9:30:00	Analysis Type: REA2	Dilution: 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	3.0		0.46	MDL	1.4	PQL	mg/Kg	U	B
EFH (C30-C40)	6.8		0.46	MDL	1.4	PQL	mg/Kg	U	B

Sample ID: SL-109-SA7-SB-4.0-5.0	Collected: 9/26/2011 12:13:00	Analysis Type: REA2	Dilution: 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	1.5		0.42	MDL	1.2	PQL	mg/Kg	U	B
EFH (C30-C40)	4.3		0.42	MDL	1.2	PQL	mg/Kg	U	B

Sample ID: SL-109-SA7-SB-9.0-10.0	Collected: 9/26/2011 12:20:00	Analysis Type: REA2	Dilution: 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.50	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C21-C30)	3.7		0.43	MDL	1.3	PQL	mg/Kg	U	B
EFH (C30-C40)	6.6		0.43	MDL	1.3	PQL	mg/Kg	U	B

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-102-SA7-SB-4.0-5.0	Collected: 9/26/2011 9:10:00	Analysis Type: RES-ACID	Dilution: 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	350	U	350	MDL	1000	PQL	ug/Kg	R	Q
BENZIDINE	1200	U	1200	MDL	3500	PQL	ug/Kg	UJ	Q

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: SL-102-SA7-SB-4.0-5.0	Collected: 9/26/2011 9:10:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	1.4	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z, FD
ACENAPHTHYLENE	1.2	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z, FD
ANTHRACENE	2.9		0.35	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(A)ANTHRACENE	2.9		0.70	MDL	1.7	PQL	ug/Kg	J	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE254

Laboratory: LL

EDD Filename: DE254_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVQA	Method:	8270C SIM	Matrix:	SO
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Sample ID: SL-102-SA7-SB-4.0-5.0 Collected: 9/26/2011 9:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	2.9		0.70	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(B)FLUORANTHENE	3.2		0.70	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	3.1		0.70	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(K)FLUORANTHENE	3.1		0.70	MDL	1.7	PQL	ug/Kg	J	FD
CHRYSENE	2.9		0.35	MDL	1.7	PQL	ug/Kg	J	FD
DIBENZO(A,H)ANTHRACENE	3.0		0.70	MDL	1.7	PQL	ug/Kg	J	FD
FLUORANTHENE	3.1		0.70	MDL	1.7	PQL	ug/Kg	J	FD
FLUORENE	2.4		0.70	MDL	1.7	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	3.0		0.70	MDL	1.7	PQL	ug/Kg	J	FD
PHENANTHRENE	2.9		0.70	MDL	1.7	PQL	ug/Kg	J	FD
PYRENE	3.0		0.70	MDL	1.7	PQL	ug/Kg	J	FD

Sample ID: SL-102-SA7-SB-9.0-10.0 Collected: 9/26/2011 9:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.47	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	0.71	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	0.87	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-109-SA7-SB-9.0-10.0 Collected: 9/26/2011 12:20:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.64	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.77	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.79	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.4	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.80	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.73	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.94	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.72	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	0.98	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.76	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.97	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.0	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE254
EDD Filename: DE254_v2.

Laboratory: LL
eQAPP Name: CDM_SSFL_110509

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE254

Laboratory: LL

EDD Filename: DE254_v2.

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE254

Laboratory: LL

EDD Filename: DE254_v2.

eQAPP Name: CDM_SSFL_110509

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE254

Laboratory: LL

EDD Filename: DE254_v2.

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE254

Method Blank Outlier Report

Lab Reporting Batch ID: DE254

Laboratory: LL

EDD Filename: PrepDE254_v2

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27308AB220153	10/5/2011 1:53:00 AM	BORON CALCIUM MANGANESE PHOSPHORUS STRONTIUM TIN	0.738 mg/Kg 24.6 mg/Kg 0.215 mg/Kg 1.22 mg/Kg 0.145 mg/Kg 1.51 mg/Kg	SL-102-SA7-SB-4.0-5.0 SL-102-SA7-SB-9.0-10.0 SL-109-SA7-SB-4.0-5.0 SL-109-SA7-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-102-SA7-SB-4.0-5.0(RES)	TIN	2.82 mg/Kg	2.82U mg/Kg
SL-102-SA7-SB-9.0-10.0(RES)	TIN	3.02 mg/Kg	3.02U mg/Kg
SL-109-SA7-SB-4.0-5.0(RES)	TIN	2.86 mg/Kg	2.86U mg/Kg
SL-109-SA7-SB-9.0-10.0(RES)	TIN	2.73 mg/Kg	2.73U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27726AB221129A	10/5/2011 11:29:00 AM	LEAD	0.0409 mg/Kg	SL-102-SA7-SB-4.0-5.0 SL-102-SA7-SB-9.0-10.0 SL-109-SA7-SB-4.0-5.0 SL-109-SA7-SB-9.0-10.0

Method: 8015M
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P78789AB321035A	10/8/2011 10:35:00 AM	EFH (C21-C30) EFH (C30-C40)	1.0 mg/Kg 4.2 mg/Kg	SL-102-SA7-SB-4.0-5.0 SL-102-SA7-SB-9.0-10.0 SL-109-SA7-SB-4.0-5.0 SL-109-SA7-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-102-SA7-SB-4.0-5.0(REA2)	EFH (C21-C30)	2.1 mg/Kg	2.1U mg/Kg
SL-102-SA7-SB-4.0-5.0(REA2)	EFH (C30-C40)	5.5 mg/Kg	5.5U mg/Kg
SL-102-SA7-SB-9.0-10.0(REA2)	EFH (C21-C30)	3.0 mg/Kg	3.0U mg/Kg
SL-102-SA7-SB-9.0-10.0(REA2)	EFH (C30-C40)	6.8 mg/Kg	6.8U mg/Kg
SL-109-SA7-SB-4.0-5.0(REA2)	EFH (C21-C30)	1.5 mg/Kg	1.5U mg/Kg
SL-109-SA7-SB-4.0-5.0(REA2)	EFH (C30-C40)	4.3 mg/Kg	4.3U mg/Kg
SL-109-SA7-SB-9.0-10.0(REA2)	EFH (C21-C30)	3.7 mg/Kg	3.7U mg/Kg

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Method Blank Outlier Report

Lab Reporting Batch ID: DE254

Laboratory: LL

EDD Filename: PrepDE254_v2

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-109-SA7-SB-9.0-10.0(REA2)	EFH (C30-C40)	6.6 mg/Kg	6.6U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE254

Laboratory: LL

EDD Filename: DE254_v2.

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-102-SA7-SB-4.0-5.0 MS SL-102-SA7-SB-4.0-5.0 MSD (SL-102-SA7-SB-4.0-5.0)	DIETHYLENE GLYCOL ETHYLENE GLYCOL	22 58	28 60	59.00-109.00 63.00-107.00	27 (20.00) -	DIETHYLENE GLYCOL ETHYLENE GLYCOL	J (all detects) UJ (all non-detects)

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-102-SA7-SB-4.0-5.0 MSD (SL-102-SA7-SB-4.0-5.0)	ETHANOL Isopropanol METHANOL	- - -	- - -	48.00-130.00 12.00-149.00 43.00-138.00	27 (20.00) 28 (20.00) 24 (20.00)	ETHANOL Isopropanol METHANOL	J(all detects)

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-102-SA7-SB-4.0-5.0 MS SL-102-SA7-SB-4.0-5.0 MSD (SL-102-SA7-SB-4.0-5.0)	EFH (C21-C30) EFH (C30-C40)	- 125	211 219	49.00-123.00 49.00-123.00	51 (20.00) 34 (20.00)	EFH (C21-C30) EFH (C30-C40)	J(all detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-102-SA7-SB-4.0-5.0 MS SL-102-SA7-SB-4.0-5.0 MSD (SL-102-SA7-SB-4.0-5.0) SL-102-SA7-SB-9.0-10.0 SL-109-SA7-SB-4.0-5.0 SL-109-SA7-SB-9.0-10.0)	MAGNESIUM TITANIUM	- 202	161 227	75.00-125.00 75.00-125.00	- -	MAGNESIUM TITANIUM	No Qual, >4x
SL-102-SA7-SB-4.0-5.0 MS SL-102-SA7-SB-4.0-5.0 MSD (SL-102-SA7-SB-4.0-5.0) SL-102-SA7-SB-9.0-10.0 SL-109-SA7-SB-4.0-5.0 SL-109-SA7-SB-9.0-10.0)	IRON	-169	-173	75.00-125.00	-	IRON	No Qual, >4x
SL-102-SA7-SB-4.0-5.0 MS SL-102-SA7-SB-4.0-5.0 MSD (SL-102-SA7-SB-4.0-5.0) SL-102-SA7-SB-9.0-10.0 SL-109-SA7-SB-4.0-5.0 SL-109-SA7-SB-9.0-10.0)	CALCIUM	47	133	75.00-125.00	-	CALCIUM	No Qual, >4x