

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE226

Laboratory: LL

EDD Filename: DE226_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12311AQ321700A (SL -221-SA6-SB-1.0-2.0 SL -223-SA6-SB-2.5-3.5)	ETHYLENE GLYCOL	123	-	65.00-122.00	-	ETHYLENE GLYCOL	J (all detects)
P12417AQ322025A (DUP12-SA6-QC-081711 SL -221-SA6-SB-1.0-2.0 SL -223-SA6-SB-2.5-3.5 SL -224-SA6-SB-3.0-4.0 SL -226-SA6-SB-3.5-4.5)	EFH (C12-C14) EFH (C15-C20)	120 124	- -	71.00-118.00 76.00-122.00	- -	EFH (C12-C14) EFH (C15-C20)	J(all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23526AQ220419A (DUP12-SA6-QC-081711 SL -154-SA6-SB-3.0-4.0 SL -221-SA6-SB-1.0-2.0 SL -223-SA6-SB-2.5-3.5 SL -224-SA6-SB-3.0-4.0 SL -226-SA6-SB-3.5-4.5)	ANTIMONY	61	-	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
P23508CQ221954 (DUP12-SA6-QC-081711 SL -154-SA6-SB-3.0-4.0 SL -221-SA6-SB-1.0-2.0 SL -223-SA6-SB-2.5-3.5 SL -224-SA6-SB-3.0-4.0 SL -226-SA6-SB-3.5-4.5)	ALUMINUM IRON TITANIUM	141 135 167	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON TITANIUM	No Qual, SRM within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE226

Laboratory: LL

EDD Filename: DE226_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-081711	N-Nitrosodimethylamine-d6	198	50.00-150.00	All Target Analytes	J(all detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP12-SA6-QC-081711	DECACHLOROBIPHENYL	132	45.00-120.00	All Target Analytes	J (all detects)
SL-154-SA6-SB-3.0-4.0	DECACHLOROBIPHENYL	152	45.00-120.00	All Target Analytes	No Qual, Diluted Out

Field Duplicate RPD Report

Lab Reporting Batch ID: DE226

Laboratory: LL

EDD Filename: DE226_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-224-SA6-SB-3.0-4.0	DUP12-SA6-QC-081711			
MOISTURE	9.2	6.4	36		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-224-SA6-SB-3.0-4.0	DUP12-SA6-QC-081711			
FLUORIDE	2.1	2.2	5	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-224-SA6-SB-3.0-4.0	DUP12-SA6-QC-081711			
ALUMINUM	27300	19300	34	50.00	No Qualifiers Applied
LITHIUM	46.8	30.4	42	50.00	
MANGANESE	375	583	43	50.00	
PHOSPHORUS	491	303	47	50.00	
POTASSIUM	2870	1970	37	50.00	
STRONTIUM	30.0	18.1	49	50.00	
TIN	3.77	2.80	30	50.00	
TITANIUM	1460	1000	37	50.00	
Zirconium	1.58	1.01	44	50.00	
BORON	25.7	5.09 U	200	50.00	J(all detects) UJ(all non-detects)
CALCIUM	5010	2950	52	50.00	
IRON	38100	22000	54	50.00	
MAGNESIUM	9260	5370	53	50.00	
SODIUM	234	125	61	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-224-SA6-SB-3.0-4.0	DUP12-SA6-QC-081711			
ANTIMONY	0.145	0.103	34	50.00	No Qualifiers Applied
ARSENIC	11.3	10.1	11	50.00	
BARIUM	138	89.6	43	50.00	
BERYLLIUM	1.27	0.932	31	50.00	
CADMIUM	0.0804	0.0651	21	50.00	
LEAD	11.3	10.9	4	50.00	
MOLYBDENUM	0.507	0.674	28	50.00	
NICKEL	23.0	16.7	32	50.00	
SELENIUM	0.281	0.172	48	50.00	
THALLIUM	0.427	0.454	6	50.00	
ZINC	96.2	58.8	48	50.00	
CHROMIUM	40.9	20.3	67	50.00	J(all detects)
COBALT	8.12	23.2	96	50.00	
COPPER	23.5	12.4	62	50.00	
SILVER	0.0649	0.0372	54	50.00	
VANADIUM	70.5	40.0	55	50.00	

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: DE226

Laboratory: LL

EDD Filename: DE226_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-224-SA6-SB-3.0-4.0	DUP12-SA6-QC-081711			
HEXAVALENT CHROMIUM	1.1 U	0.23	200	50.00	J(all detects) UJ(all non-detects)

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-224-SA6-SB-3.0-4.0	DUP12-SA6-QC-081711			
MERCURY	0.109 U	0.0079	200	50.00	J(all detects) UJ(all non-detects)

Method: 8015B
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-224-SA6-SB-3.0-4.0	DUP12-SA6-QC-081711			
ETHANOL	160	530 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-224-SA6-SB-3.0-4.0	DUP12-SA6-QC-081711			
EFH (C21-C30)	3.7	0.77	131	50.00	J(all detects)
EFH (C30-C40)	9.6	2.4	120	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-224-SA6-SB-3.0-4.0	DUP12-SA6-QC-081711			
AROCLOR 1254	0.40	1.8 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-224-SA6-SB-3.0-4.0	DUP12-SA6-QC-081711			
ANTHRACENE	1.8 U	0.90	200	50.00	J(all detects) UJ(all non-detects)
PHENANTHRENE	1.8 U	0.89	200	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE226

Laboratory: LL

EDD Filename: DE226_v1

eQAPP Name: CDM_SSFL_110509

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-224-SA6-SB-3.0-4.0	DUP12-SA6-QC-081711			
PH	6.62	6.70	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE226

Laboratory: LL

EDD Filename: DE226_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-081711	BORON	J	0.0038	0.0500	PQL	mg/L	J (all detects)

Method: 6020
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-081711	LEAD	J	0.00029	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-SA6-SB-081711	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.10	0.95	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.22	0.95	PQL	ug/L	
	Di-n-butylphthalate	J	0.69	0.95	PQL	ug/L	
	Di-n-octylphthalate	J	0.073	0.95	PQL	ug/L	

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-223-SA6-SB-2.5-3.5	FLUORIDE	J	0.97	1.0	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP12-SA6-QC-081711	TIN	J	2.80	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.01	5.09	PQL	mg/Kg	
SL-154-SA6-SB-3.0-4.0	SODIUM	J	98.0	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.81	10.1	PQL	mg/Kg	
	Zirconium	J	1.29	5.03	PQL	mg/Kg	
SL-221-SA6-SB-1.0-2.0	BORON	J	0.594	5.28	PQL	mg/Kg	J (all detects)
	TIN	J	2.62	10.6	PQL	mg/Kg	
	Zirconium	J	1.42	5.28	PQL	mg/Kg	
SL-223-SA6-SB-2.5-3.5	BORON	J	0.600	5.12	PQL	mg/Kg	J (all detects)
	TIN	J	2.72	10.2	PQL	mg/Kg	
	Zirconium	J	2.07	5.12	PQL	mg/Kg	
SL-224-SA6-SB-3.0-4.0	BORON	J	25.7	27.3	PQL	mg/Kg	J (all detects)
	TIN	J	3.77	10.9	PQL	mg/Kg	
	Zirconium	J	1.58	5.45	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE226

Laboratory: LL

EDD Filename: DE226_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-226-SA6-SB-3.5-4.5	BORON	J	0.989	5.20	PQL	mg/Kg	J (all detects)
	SODIUM	J	84.9	104	PQL	mg/Kg	
	TIN	J	2.80	10.4	PQL	mg/Kg	
	Zirconium	J	2.30	5.20	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP12-SA6-QC-081711	ANTIMONY	J	0.103	0.204	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0651	0.102	PQL	mg/Kg	
	SELENIUM	J	0.172	0.407	PQL	mg/Kg	
	SILVER	J	0.0372	0.102	PQL	mg/Kg	
SL-154-SA6-SB-3.0-4.0	SELENIUM	J	0.142	0.411	PQL	mg/Kg	J (all detects)
SL-221-SA6-SB-1.0-2.0	SELENIUM	J	0.102	0.410	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0428	0.103	PQL	mg/Kg	
SL-223-SA6-SB-2.5-3.5	SELENIUM	J	0.145	0.409	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0389	0.102	PQL	mg/Kg	
SL-224-SA6-SB-3.0-4.0	ANTIMONY	J	0.145	0.212	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0804	0.106	PQL	mg/Kg	
	SELENIUM	J	0.281	0.424	PQL	mg/Kg	
	SILVER	J	0.0649	0.106	PQL	mg/Kg	
SL-226-SA6-SB-3.5-4.5	SELENIUM	J	0.113	0.412	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0314	0.103	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP12-SA6-QC-081711	HEXAVALENT CHROMIUM	J	0.23	1.1	PQL	mg/Kg	J (all detects)
SL-221-SA6-SB-1.0-2.0	HEXAVALENT CHROMIUM	J	0.31	1.0	PQL	mg/Kg	J (all detects)
SL-223-SA6-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.56	1.1	PQL	mg/Kg	J (all detects)
SL-226-SA6-SB-3.5-4.5	HEXAVALENT CHROMIUM	J	0.27	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP12-SA6-QC-081711	MERCURY	J	0.0079	0.101	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE226

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eQAPP Name: CDM_SSFL_110509

Method: 8015B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-224-SA6-SB-3.0-4.0	ETHANOL	J	160	550	PQL	ug/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP12-SA6-QC-081711	EFH (C21-C30)	J	0.77	1.3	PQL	mg/Kg	J (all detects)
SL-221-SA6-SB-1.0-2.0	EFH (C12-C14)	J	0.62	1.3	PQL	mg/Kg	J (all detects)
	EFH (C21-C30)	J	0.49	1.3	PQL	mg/Kg	
	EFH (C30-C40)	J	0.88	1.3	PQL	mg/Kg	

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-221-SA6-SB-1.0-2.0	AROCLOR 1254	J	0.55	1.8	PQL	ug/Kg	J (all detects)
SL-223-SA6-SB-2.5-3.5	AROCLOR 1254	J	1.0	1.8	PQL	ug/Kg	J (all detects)
SL-224-SA6-SB-3.0-4.0	AROCLOR 1254	J	0.40	1.9	PQL	ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP12-SA6-QC-081711	Diethylphthalate	J	85	180	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP12-SA6-QC-081711	ANTHRACENE	J	0.90	1.8	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	0.89	1.8	PQL	ug/Kg	

LDC #: 2653304

VALIDATION COMPLETENESS WORKSHEET

Date: 11/7/11

SDG #: DE226

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	SW	No fuel by 2CB/CCB
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, As, Ba, Ca, Fe, Mg, Mn, P, Ti, V, Zn > 4X (As from H ₂ O)
VII.	Duplicate Sample Analysis	SW	Hg, Ag, Zr < 5X. (Mo, Ir, by different I/UT)
VIII.	Laboratory Control Samples (LCS)	N	SRM
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	-	
XV.	Field Blanks	SW	EB = 7

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-154-SA6-SB-3.0-4.0	11		21		31	
2	SL-221-SA6-SB-1.0-2.0	12		22		32	
3	SL-223-SA6-SB-2.5-3.5	13		23		33	
4	SL-224-SA6-SB-3.0-4.0	14		24		34	
5	SL-226-SA6-SB-3.5-4.5	15		25		35	
6	DUP12-SA6-QC-081711	16		26		36	
7	EB-SA6-SB-081711	17		27		37	
8	SL-224-SA6-SB-3.0-4.0MS	18		28		38	
9	SL-224-SA6-SB-3.0-4.0MSD	19		29		39	
10	SL-224-SA6-SB-3.0-4.0DUP	20		30		40	

Notes: _____

VALIDATION FINDINGS WORKSHEET
Field Blanks

METHOD: Trace Metals (EPA SW846 6010B/6020/7000)

N N/A Were field blanks identified in this SDG?
 Y N N/A Were target analytes detected in the field blanks?

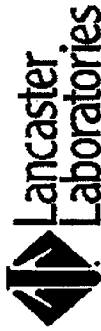
Blank units: ug/L **Associated sample units:** mg/kg

Sampling date: 8/17/11 **Soil factor applied:** 100x

Field blank type: (circle one) Field Blank / Rinsate / Other: **Associated Samples:** All Soil

Analyte	Blank ID	Sample Identification				
	4					
B	3.8	1.9	0.59	0.60	0.99	
Pb	0.29	0.145				

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.: DE226
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6380492BKG Matrix Spike Lab Sample ID: 6380493MS Matrix Spike Duplicate Lab Sample ID: 6380494MSD
 & Solids for Sample: 90.8
 Batch Id(s): P23508C, P23526A, P23511A

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MS Spike Added	Units	MS		MSD		Control Limit	
		Result	C	Result	C	Result	C			%R	Q	%R	Q	%R	RPD
Aluminum	121	27345.5805		27351.6378		28212.7529		218.0835	MG/KG	3		406			20P
Antimony	75	0.1453	B	0.4364		0.4272		1.3085	MG/KG	22	N	22	N	75 - 125	20MS
Arsenic	137	11.3478		13.0959		21.3275		2.1808	MG/KG	80		471			20MS
Barium	137	138.4488		133.6634		131.2479		10.9042	MG/KG	-44		-68			20MS
Beryllium	9	1.2746		1.8722		1.9665		0.8723	MG/KG	69	N	82		75 - 125	20MS
Boron		25.7339	B	223.6555		228.3425		218.0835	MG/KG	91		95		84 - 115	20P
Cadmium	111	0.0804	B	1.1493		1.1774		1.0904	MG/KG	98		104		75 - 125	20MS
Calcium		5011.8245		5240.9561		5338.7366		436.1670	MG/KG	53		76			20P
Chromium	52	40.9183		52.3837		50.9361		10.9042	MG/KG	105		95		75 - 125	20MS
Cobalt	59	8.1180		62.4373		67.4983		54.5209	MG/KG	100		112		75 - 125	20MS
Copper	63	23.5302		34.9370		32.7431		10.9042	MG/KG	105		87		75 - 125	20MS
Iron		38062.8953		36891.2472		42466.7251		109.0417	MG/KG	-1074		4119			20P
Lead	208	11.2547		13.6498		18.9110		3.2713	MG/KG	73	N	241	N	75 - 125	20MS
Lithium		46.7680		142.4609		142.8649		109.0417	MG/KG	88		90		82 - 114	20P
Magnesium		9256.7595		8343.0257		8729.0278		218.0835	MG/KG	-419		-247			20P
Manganese		375.1788		339.4022		367.9708		54.5209	MG/KG	-66		-13			20P
Mercury		0.0078	U	0.1847		0.1924		0.1743	MG/KG	106		106		65 - 135	20CV
Molybdenum	98	0.5075		10.2979		10.8205		10.9042	MG/KG	90		97		75 - 125	20MS
Nickel	60	23.0430		33.2359		34.4798		10.9042	MG/KG	93		108		75 - 125	20MS
Phosphorus		490.8841		653.5471		724.9583		109.0417	MG/KG	149		219			20P
Potassium		2872.2358		3766.4653		4250.7805		1090.4174	MG/KG	82		129	N	75 - 125	20P
Selenium	78	0.2810	B	2.2441		2.4441		2.1808	MG/KG	90		102		75 - 125	20MS
Silver	107	0.0649	B	10.8606		10.5579		10.9042	MG/KG	99		99		75 - 125	20MS
Sodium		234.0854		1252.2114		1254.5101		1090.4174	MG/KG	93		95		75 - 125	20P
Strontium		30.0225		132.7441		129.0139		109.0417	MG/KG	94		93		75 - 115	20P
Thallium	203	0.4270		0.7692		0.9457		0.4362	MG/KG	78		122		75 - 125	20MS
Tin		3.7674	B	371.0865		367.9066		436.1670	MG/KG	84		85		80 - 110	20P
Titanium		1463.7763		1621.2490		1766.5626		109.0417	MG/KG	144		283			20P
Vanadium	51	70.5269		80.8654		95.7938		10.9042	MG/KG	95		239			20MS
Zinc	66	96.2174		103.3498		110.8311		10.9042	MG/KG	65		138			20MS
Zirconium	90	1.5789	B	101.5844		104.1476		109.0417	MG/KG	92		96		75 - 125	20P

METHODS: ICP-MS Atomic Emission Spectrometer CV = Cold Vapor
 MS = ICP-MS Mass Spectrometry AF = Cold Vapor Atomic Fluorescence
 CONCENTRATION QUALIFIERS:
 U = Below MDL, B = Below LOQ
 FLAGS:
 N = Matrix Spike OOS, * = Duplicate OOS

Post spike. Sp: 92%
 10/14/04



QUALITY ASSURANCE SUMMARY

FORM 6

DUPLICATES

SDG No.: DE226

Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6380492BKG
 % Solids for Duplicate: 90.5
 Batch ID(s): P23508C, P23526A, P23511A
 Concentration Units: MG/KG

Duplicate Lab Sample ID: 6380495DUP
 % Solids for Sample: 90.8

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			27345.5805		25992.7423		5		P
Antimony	121		0.1453	B	0.1428	B	2		MS
Arsenic	75		11.3478		22.5110		66	*	MS
Barium	137		138.4488		137.9736		0		MS
Beryllium	9		1.2746		1.4597		14		MS
Boron		27.3	25.7339	B	28.0121		8		P
Cadmium	111		0.0804	B	0.0827	B	3		MS
Calcium			5011.8245		4913.7819		2		P
Chromium	52		40.9183		46.0352		12		MS
Cobalt	59		8.1180		12.1189		40	*	MS
Copper	63		23.5302		23.8767		1		MS
Iron			38062.8953		47941.2335		23	*	P
Lead	208		11.2547		14.1101		23	*	MS
Lithium			46.7680		42.4394		10		P
Magnesium			9256.7595		8756.1366		6		P
Manganese			375.1788		304.7643		21	*	P
Mercury			0.0078	U	0.0175	B	200		CV
Molybdenum	98	0.1	0.5075		0.8286		diff 48	*	MS
Nickel	60		23.0430		26.1233		13		MS
Phosphorus			490.8841		564.3117		14		P
Potassium			2872.2358		2579.1134		11		P
Selenium	78		0.2810	B	0.3286	B	16		MS
Silver	107		0.0649	B	0.0302	B	73		MS
Sodium		109.0	234.0854		217.5804		7		P
Strontium			30.0225		29.1443		diff 3		P
Thallium	203	0.1	0.4270		0.6696		diff 44	*	MS
Tin			3.7674	B	3.7015	B	2		P
Titanium			1463.7763		1456.7841		0		P
Vanadium	51		70.5269		84.6035		18		MS
Zinc	66		96.2174		95.6388		1		MS
Zirconium			1.5789	B	2.7852	B	55		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.

Mo: diff 48 0.3211 mg/g (≤ 0.220)
 Te: ↓ 0.2426 ↓ ↓

DE226 3597

<p>METHODS:</p> <p>P = ICP Atomic Emission Spectrometer MS = ICP Mass Spectrometry CV = Cold Vapor AF = Cold Vapor Atomic Fluorescence</p>	<p>CONCENTRATION QUALIFIERS:</p> <p>U= Below MDL B= Below LOQ</p> <p>FLAGS:</p> <p>* = Duplicate Out of Spec</p>
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SAMPLE DELIVERY GROUP

DE227

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
18-Aug-2011	SL-219-SA6-SB-2.5-3.5	6381750	N	3050B	6010B	III
18-Aug-2011	SL-219-SA6-SB-2.5-3.5	6381750	N	3050B	6020	III
18-Aug-2011	SL-219-SA6-SB-2.5-3.5	6381750	N	3060A	7199	III
18-Aug-2011	SL-219-SA6-SB-2.5-3.5	6381750	N	3550B	8015B	III
18-Aug-2011	SL-219-SA6-SB-2.5-3.5	6381750	N	3550B	8015M	III
18-Aug-2011	SL-219-SA6-SB-2.5-3.5	6381750	N	3550B	8082	III
18-Aug-2011	SL-219-SA6-SB-2.5-3.5	6381750	N	3550B	8270C	III
18-Aug-2011	SL-219-SA6-SB-2.5-3.5	6381750	N	3550B	8270C SIM	III
18-Aug-2011	SL-219-SA6-SB-2.5-3.5	6381750	N	5035	8015M	III
18-Aug-2011	SL-219-SA6-SB-2.5-3.5	6381750	N	Gen Prep	314.0	III
18-Aug-2011	SL-219-SA6-SB-2.5-3.5	6381750	N	METHOD	300.0	III
18-Aug-2011	SL-219-SA6-SB-2.5-3.5	6381750	N	METHOD	7471A	III
18-Aug-2011	SL-219-SA6-SB-2.5-3.5	6381750	N	METHOD	8015B	III
18-Aug-2011	SL-219-SA6-SB-2.5-3.5	6381750	N	METHOD	8015M	III
18-Aug-2011	TB-081811	6381753	TB	5030B	8015M	III
18-Aug-2011	SL-219-SA6-SB-2.5-3.5MSD	P381750M322123A	MSD	3550B	8015B	III
18-Aug-2011	SL-219-SA6-SB-2.5-3.5MS	P381750R322039A	MS	3550B	8015B	III
18-Aug-2011	SL-211-SA6-SB-1.5-2.5	6381749	N	3050B	6010B	III
18-Aug-2011	SL-211-SA6-SB-1.5-2.5	6381749	N	3050B	6020	III
18-Aug-2011	SL-211-SA6-SB-1.5-2.5	6381749	N	3060A	7199	III
18-Aug-2011	SL-211-SA6-SB-1.5-2.5	6381749	N	3550B	8082	III
18-Aug-2011	SL-211-SA6-SB-1.5-2.5	6381749	N	3550B	8270C	III
18-Aug-2011	SL-211-SA6-SB-1.5-2.5	6381749	N	3550B	8270C SIM	III
18-Aug-2011	SL-211-SA6-SB-1.5-2.5	6381749	N	METHOD	300.0	III
18-Aug-2011	SL-211-SA6-SB-1.5-2.5	6381749	N	METHOD	314.0	III
18-Aug-2011	SL-211-SA6-SB-1.5-2.5	6381749	N	METHOD	6850	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
18-Aug-2011	SL-211-SA6-SB-1.5-2.5	6381749	N	METHOD	7471A	III
18-Aug-2011	SL-211-SA6-SB-1.5-2.5_201	P381749	N	METHOD	314.0	III
18-Aug-2011	SL-211-SA6-SB-1.5-2.5_203	P381749	N	METHOD	314.0	III
18-Aug-2011	SL-211-SA6-SB-1.5-2.5DUP	P381749D271857B	DUP	METHOD	300.0	III
18-Aug-2011	SL-211-SA6-SB-1.5-2.5MSD	P381749M261004	MSD	3550B	8270C SIM	III
18-Aug-2011	SL-211-SA6-SB-1.5-2.5MS	P381749R260931	MS	3550B	8270C SIM	III
18-Aug-2011	SL-211-SA6-SB-1.5-2.5MS	P381749R271910B	MS	METHOD	300.0	III
18-Aug-2011	SL-314-SA6-SB-3.0-4.0	6381752	N	3050B	6010B	III
18-Aug-2011	SL-314-SA6-SB-3.0-4.0	6381752	N	3050B	6020	III
18-Aug-2011	SL-314-SA6-SB-3.0-4.0	6381752	N	3060A	7199	III
18-Aug-2011	SL-314-SA6-SB-3.0-4.0	6381752	N	3550B	8082	III
18-Aug-2011	SL-314-SA6-SB-3.0-4.0	6381752	N	3550B	8270C	III
18-Aug-2011	SL-314-SA6-SB-3.0-4.0	6381752	N	3550B	8270C SIM	III
18-Aug-2011	SL-314-SA6-SB-3.0-4.0	6381752	N	Gen Prep	314.0	III
18-Aug-2011	SL-314-SA6-SB-3.0-4.0	6381752	N	METHOD	300.0	III
18-Aug-2011	SL-314-SA6-SB-3.0-4.0	6381752	N	METHOD	7471A	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0	6381751	N	3050B	6010B	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0	6381751	N	3050B	6020	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0	6381751	N	3060A	7199	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0	6381751	N	3546	1625C	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0	6381751	N	3550B	8015B	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0	6381751	N	3550B	8015M	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0	6381751	N	3550B	8082	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0	6381751	N	3550B	8270C	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0	6381751	N	3550B	8270C SIM	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0	6381751	N	5035	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
18-Aug-2011	SL-228-SA6-SB-4.0-5.0	6381751	N	8330	8330A	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0	6381751	N	METHOD	300.0	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0	6381751	N	METHOD	314.0	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0	6381751	N	METHOD	7471A	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0	6381751	N	METHOD	8015B	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0	6381751	N	METHOD	8015M	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0	6381751	N	METHOD	8315A	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0	6381751	N	METHOD	9012B	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0DUP	P381751D271905A	DUP	METHOD	9012B	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0MSD	P381751M241823A	MSD	METHOD	8315A	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0MSD	P381751M241955A	MSD	8330	8330A	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0MSD	P381751M262300	MSD	3546	1625C	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0MS	P381751R241813A	MS	METHOD	8315A	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0MS	P381751R241913A	MS	8330	8330A	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0MS	P381751R262240	MS	3546	1625C	III
18-Aug-2011	SL-228-SA6-SB-4.0-5.0MS	P381751R271906A	MS	METHOD	9012B	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE227

Laboratory: LL

EDD Filename: DE227_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-211-SA6-SB-1.5-2.5 Collected: 8/18/2011 9:05:00 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-219-SA6-SB-2.5-3.5 Collected: 8/18/2011 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	0.98	J	0.85	MDL	1.1	PQL	mg/Kg	J	Z, Q

Sample ID: SL-228-SA6-SB-4.0-5.0 Collected: 8/18/2011 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	1.5		0.86	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.1	J	0.86	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-314-SA6-SB-3.0-4.0 Collected: 8/18/2011 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	1.9		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-211-SA6-SB-1.5-2.5 Collected: 8/18/2011 9:05:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2190		11.9	MDL	52.4	PQL	mg/Kg	J	Q

Sample ID: SL-211-SA6-SB-1.5-2.5 Collected: 8/18/2011 9:05:00 Analysis Type: REA2 Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	25700		13.7	MDL	105	PQL	mg/Kg	J	E

Sample ID: SL-211-SA6-SB-1.5-2.5 Collected: 8/18/2011 9:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	257		0.0378	MDL	0.524	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

11/15/2011 10:39:25 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE227

Laboratory: LL

EDD Filename: DE227_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-211-SA6-SB-1.5-2.5

Collected: 8/18/2011 9:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.74	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	4.08	J	0.482	MDL	5.24	PQL	mg/Kg	J	Z

Sample ID: SL-219-SA6-SB-2.5-3.5

Collected: 8/18/2011 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
BORON	3.80	J	0.368	MDL	5.11	PQL	mg/Kg	J	Z
IRON	21300		2.67	MDL	20.5	PQL	mg/Kg	J	E
MANGANESE	289		0.0368	MDL	0.511	PQL	mg/Kg	J	E
POTASSIUM	2890		11.6	MDL	51.1	PQL	mg/Kg	J	Q
SODIUM	91.8	J	6.09	MDL	102	PQL	mg/Kg	J	Z
TIN	2.63	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.48	J	0.471	MDL	5.11	PQL	mg/Kg	J	Z

Sample ID: SL-228-SA6-SB-4.0-5.0

Collected: 8/18/2011 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
BORON	1.18	J	0.375	MDL	5.21	PQL	mg/Kg	J	Z
IRON	23400		2.72	MDL	20.9	PQL	mg/Kg	J	E
MANGANESE	293		0.0375	MDL	0.521	PQL	mg/Kg	J	E
POTASSIUM	1660		11.8	MDL	52.1	PQL	mg/Kg	J	Q
TIN	2.80	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.15	J	0.480	MDL	5.21	PQL	mg/Kg	J	Z

Sample ID: SL-314-SA6-SB-3.0-4.0

Collected: 8/18/2011 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
BORON	1.38	J	0.364	MDL	5.06	PQL	mg/Kg	J	Z
IRON	23300		2.64	MDL	20.2	PQL	mg/Kg	J	E
MANGANESE	401		0.0364	MDL	0.506	PQL	mg/Kg	J	E
POTASSIUM	1980		11.4	MDL	50.6	PQL	mg/Kg	J	Q
TIN	2.83	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	0.987	J	0.465	MDL	5.06	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

11/15/2011 10:39:25 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE227

Laboratory: LL

EDD Filename: DE227_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-211-SA6-SB-1.5-2.5 Collected: 8/18/2011 9:05:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0657	J	0.0591	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-211-SA6-SB-1.5-2.5 Collected: 8/18/2011 9:05:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.702		0.0509	MDL	0.102	PQL	mg/Kg	J	E

Sample ID: SL-211-SA6-SB-1.5-2.5 Collected: 8/18/2011 9:05:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.142	J	0.0754	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	6.57		0.0815	MDL	0.407	PQL	mg/Kg	J	E, E
BERYLLIUM	0.501		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
COBALT	6.12		0.0204	MDL	0.102	PQL	mg/Kg	J	E
LEAD	4.99		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, Q, E, E
SILVER	0.0192	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z
THALLIUM	0.199		0.0306	MDL	0.102	PQL	mg/Kg	J	E, E

Sample ID: SL-219-SA6-SB-2.5-3.5 Collected: 8/18/2011 8:00:00 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	0.0588	MDL	0.405	PQL	mg/Kg	J	Z

Sample ID: SL-219-SA6-SB-2.5-3.5 Collected: 8/18/2011 8:00:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.832		0.0507	MDL	0.101	PQL	mg/Kg	J	E

Sample ID: SL-219-SA6-SB-2.5-3.5 Collected: 8/18/2011 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	0.0897	J	0.0750	MDL	0.203	PQL	mg/Kg	J	Z, Q
ARSENIC	8.87		0.0811	MDL	0.405	PQL	mg/Kg	J	E, E
BERYLLIUM	0.788		0.0162	MDL	0.101	PQL	mg/Kg	J	Q
COBALT	8.74		0.0203	MDL	0.101	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

11/15/2011 10:39:25 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE227

Laboratory: LL

EDD Filename: DE227_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-219-SA6-SB-2.5-3.5 Collected: 8/18/2011 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
LEAD	6.76		0.0103	MDL	0.203	PQL	mg/Kg	J	Q, Q, E, E
SILVER	0.0301	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z
THALLIUM	0.392		0.0304	MDL	0.101	PQL	mg/Kg	J	E, E

Sample ID: SL-228-SA6-SB-4.0-5.0 Collected: 8/18/2011 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	0.153	J	0.0605	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: SL-228-SA6-SB-4.0-5.0 Collected: 8/18/2011 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	0.501		0.0521	MDL	0.104	PQL	mg/Kg	J	E

Sample ID: SL-228-SA6-SB-4.0-5.0 Collected: 8/18/2011 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	0.0772	U	0.0772	MDL	0.209	PQL	mg/Kg	UJ	Q
ARSENIC	6.16		0.0834	MDL	0.417	PQL	mg/Kg	J	E, E
BERYLLIUM	0.718		0.0167	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.0566	J	0.0459	MDL	0.104	PQL	mg/Kg	J	Z
COBALT	6.87		0.0209	MDL	0.104	PQL	mg/Kg	J	E
LEAD	6.35		0.0106	MDL	0.209	PQL	mg/Kg	J	Q, Q, E, E
SILVER	0.0228	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z
THALLIUM	0.196		0.0313	MDL	0.104	PQL	mg/Kg	J	E, E

Sample ID: SL-314-SA6-SB-3.0-4.0 Collected: 8/18/2011 10:50:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.120	J	0.0604	MDL	0.416	PQL	mg/Kg	J	Z

Sample ID: SL-314-SA6-SB-3.0-4.0 Collected: 8/18/2011 10:50:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.524		0.0520	MDL	0.104	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: DE227

Laboratory: LL

EDD Filename: DE227_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-314-SA6-SB-3.0-4.0 Collected: 8/18/2011 10:50:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0770	U	0.0770	MDL	0.208	PQL	mg/Kg	UJ	Q
ARSENIC	6.08		0.0833	MDL	0.416	PQL	mg/Kg	J	E, E
BERYLLIUM	0.704		0.0167	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.0755	J	0.0458	MDL	0.104	PQL	mg/Kg	J	Z
COBALT	7.35		0.0208	MDL	0.104	PQL	mg/Kg	J	E
LEAD	5.05		0.0106	MDL	0.208	PQL	mg/Kg	J	Q, Q, E, E
SILVER	0.0193	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z
THALLIUM	0.254		0.0312	MDL	0.104	PQL	mg/Kg	J	E, E

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-219-SA6-SB-2.5-3.5 Collected: 8/18/2011 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	0.22	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-314-SA6-SB-3.0-4.0 Collected: 8/18/2011 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	0.97	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-211-SA6-SB-1.5-2.5 Collected: 8/18/2011 9:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0074	J	0.0069	MDL	0.0980	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: DE227

Laboratory: LL

EDD Filename: DE227_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8015M **Matrix:** SO

Sample ID: SL-219-SA6-SB-2.5-3.5 Collected: 8/18/2011 8:00:00 Analysis Type: DL2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	1.8		0.42	MDL	1.3	PQL	mg/Kg	U	B

Sample ID: SL-228-SA6-SB-4.0-5.0 Collected: 8/18/2011 11:45:00 Analysis Type: DL2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.51	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z, L
EFH (C30-C40)	3.7		0.43	MDL	1.3	PQL	mg/Kg	U	B

Method Category: VOA
Method: 8015B **Matrix:** SO

Sample ID: SL-228-SA6-SB-4.0-5.0 Collected: 8/18/2011 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
METHANOL	200	J	110	MDL	540	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: DE227

Laboratory: LL

EDD Filename: DE227_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: DE227

Laboratory: LL

EDD Filename: DE227_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: DE227

Laboratory: LL

EDD Filename: DE227_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

DE227

Method Blank Outlier Report

Lab Reporting Batch ID: DE227

Laboratory: LL

EDD Filename: DE227_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23508CB221950	8/24/2011 7:50:00 PM	CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS STRONTIUM TIN	4.72 mg/Kg 9.94 mg/Kg 0.485 mg/Kg 0.0738 mg/Kg 1.30 mg/Kg 0.0252 mg/Kg 1.68 mg/Kg	SL-211-SA6-SB-1.5-2.5 SL-219-SA6-SB-2.5-3.5 SL-228-SA6-SB-4.0-5.0 SL-314-SA6-SB-3.0-4.0

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-211-SA6-SB-1.5-2.5(RES)	TIN	2.74 mg/Kg	2.74U mg/Kg
SL-219-SA6-SB-2.5-3.5(RES)	TIN	2.63 mg/Kg	2.63U mg/Kg
SL-228-SA6-SB-4.0-5.0(RES)	TIN	2.80 mg/Kg	2.80U mg/Kg
SL-314-SA6-SB-3.0-4.0(RES)	TIN	2.83 mg/Kg	2.83U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23526AB220416A	8/25/2011 4:16:00 AM	LEAD	0.0151 mg/Kg	SL-211-SA6-SB-1.5-2.5 SL-219-SA6-SB-2.5-3.5 SL-228-SA6-SB-4.0-5.0 SL-314-SA6-SB-3.0-4.0

Method: 8015M
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P41417AB322001A	8/30/2011 8:01:00 PM	EFH (C21-C30) EFH (C30-C40)	0.56 mg/Kg 1.8 mg/Kg	SL-219-SA6-SB-2.5-3.5 SL-228-SA6-SB-4.0-5.0

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-219-SA6-SB-2.5-3.5(DL2)	EFH (C30-C40)	1.8 mg/Kg	1.8U mg/Kg
SL-228-SA6-SB-4.0-5.0(DL2)	EFH (C30-C40)	3.7 mg/Kg	3.7U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE227

Laboratory: LL

EDD Filename: DE227_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-211-SA6-SB-1.5-2.5MS (SL-211-SA6-SB-1.5-2.5 SL-219-SA6-SB-2.5-3.5 SL-228-SA6-SB-4.0-5.0 SL-314-SA6-SB-3.0-4.0)	FLUORIDE	52	-	80.00-120.00	-	FLUORIDE	J (all detects) UJ (all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE227

Laboratory: LL

EDD Filename: DE227_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015M

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12417AQ322025A (SL -219-SA6-SB-2.5-3.5 SL -228-SA6-SB-4.0-5.0)	EFH (C12-C14) EFH (C15-C20)	120 124	- -	71.00-118.00 76.00-122.00	- -	EFH (C12-C14) EFH (C15-C20)	J (all detects)

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23526AQ220419A (SL -211-SA6-SB-1.5-2.5 SL -219-SA6-SB-2.5-3.5 SL -228-SA6-SB-4.0-5.0 SL -314-SA6-SB-3.0-4.0)	ANTIMONY	61	-	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
P23508CQ221954 (SL -211-SA6-SB-1.5-2.5 SL -219-SA6-SB-2.5-3.5 SL -228-SA6-SB-4.0-5.0 SL -314-SA6-SB-3.0-4.0)	ALUMINUM IRON TITANIUM	141 135 167	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON TITANIUM	No Qual, SRM within QC Limits

Reporting Limit Outliers

Lab Reporting Batch ID: DE227

Laboratory: LL

EDD Filename: DE227_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-219-SA6-SB-2.5-3.5	FLUORIDE	J	0.98	1.1	PQL	mg/Kg	J (all detects)
SL-228-SA6-SB-4.0-5.0	Nitrate-NO3	J	1.1	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-211-SA6-SB-1.5-2.5	TIN	J	2.74	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.08	5.24	PQL	mg/Kg	
SL-219-SA6-SB-2.5-3.5	BORON	J	3.80	5.11	PQL	mg/Kg	J (all detects)
	SODIUM	J	91.8	102	PQL	mg/Kg	
	TIN	J	2.63	10.2	PQL	mg/Kg	
	Zirconium	J	1.48	5.11	PQL	mg/Kg	
SL-228-SA6-SB-4.0-5.0	BORON	J	1.18	5.21	PQL	mg/Kg	J (all detects)
	TIN	J	2.80	10.4	PQL	mg/Kg	
	Zirconium	J	1.15	5.21	PQL	mg/Kg	
SL-314-SA6-SB-3.0-4.0	BORON	J	1.38	5.06	PQL	mg/Kg	J (all detects)
	TIN	J	2.83	10.1	PQL	mg/Kg	
	Zirconium	J	0.987	5.06	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-211-SA6-SB-1.5-2.5	ANTIMONY	J	0.142	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0657	0.407	PQL	mg/Kg	
	SILVER	J	0.0192	0.102	PQL	mg/Kg	
SL-219-SA6-SB-2.5-3.5	ANTIMONY	J	0.0897	0.203	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.131	0.405	PQL	mg/Kg	
	SILVER	J	0.0301	0.101	PQL	mg/Kg	
SL-228-SA6-SB-4.0-5.0	CADMIUM	J	0.0566	0.104	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.153	0.417	PQL	mg/Kg	
	SILVER	J	0.0228	0.104	PQL	mg/Kg	
SL-314-SA6-SB-3.0-4.0	CADMIUM	J	0.0755	0.104	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.120	0.416	PQL	mg/Kg	
	SILVER	J	0.0193	0.104	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-219-SA6-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.22	1.1	PQL	mg/Kg	J (all detects)
SL-314-SA6-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.97	1.1	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE227

Laboratory: LL

EDD Filename: DE227_v1

eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-211-SA6-SB-1.5-2.5	MERCURY	J	0.0074	0.0980	PQL	mg/Kg	J (all detects)

Method: 8015B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-228-SA6-SB-4.0-5.0	METHANOL	J	200	540	PQL	ug/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-228-SA6-SB-4.0-5.0	EFH (C15-C20)	J	0.51	1.3	PQL	mg/Kg	J (all detects)

LDC #: 26533P4

VALIDATION COMPLETENESS WORKSHEET

Date: 11/9/11

SDG #: DE227

ADR

Page: (of)

Laboratory: Lancaster Laboratories

Reviewer: *mm*2nd Reviewer: *e*

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	<i>N</i>	
III.	Calibration	<i>N</i>	
IV.	Blanks	<i>SW</i>	<i>No qual by sub/ab</i>
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	<i>SW</i>	<i>3 Sep 06 2006</i>
VII.	Duplicate Sample Analysis	<i>SW</i>	
VIII.	Laboratory Control Samples (LCS)	N	<i>SRM</i>
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	<i>A</i>	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	<i>N</i>	
XV.	Field Blanks	<i>N</i>	

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SL-211-SA6-SB-1.5-2.5	11		21		31	
2	SL-219-SA6-SB-2.5-3.5	12		22		32	
3	SL-228-SA6-SB-4.0-5.0	13		23		33	
4	SL-314-SA6-SB-3.0-4.0	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	

Notes: _____

SAMPLE DELIVERY GROUP

DE228

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
19-Aug-2011	TB-081911	6382931	TB	5030B	8015M	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0	6382929	N	3050B	6010B	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0	6382929	N	3050B	6020	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0	6382929	N	3060A	7199	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0	6382929	N	3546	1625C	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0	6382929	N	3550B	8015B	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0	6382929	N	3550B	8015M	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0	6382929	N	3550B	8082	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0	6382929	N	3550B	8270C	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0	6382929	N	3550B	8270C SIM	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0	6382929	N	5035	8015M	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0	6382929	N	8330	8330A	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0	6382929	N	METHOD	300.0	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0	6382929	N	METHOD	314.0	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0	6382929	N	METHOD	7471A	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0	6382929	N	METHOD	8015B	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0	6382929	N	METHOD	8015M	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0	6382929	N	METHOD	8315A	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0	6382929	N	METHOD	9012B	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0DUP	P382929D272046C	DUP	METHOD	300.0	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0MSD	P382929M261101	MSD	3550B	8270C SIM	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0MSD	P382929M261451	MSD	3550B	8270C	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0MS	P382929R261028	MS	3550B	8270C SIM	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0MS	P382929R261428	MS	3550B	8270C	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0MS	P382929R272100C	MS	METHOD	300.0	III
19-Aug-2011	SL-214-SA6-SB-1.0-2.0	6382930	N	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Aug-2011	SL-214-SA6-SB-1.0-2.0	6382930	N	3050B	6020	III
19-Aug-2011	SL-214-SA6-SB-1.0-2.0	6382930	N	3060A	7199	III
19-Aug-2011	SL-214-SA6-SB-1.0-2.0	6382930	N	3550B	8082	III
19-Aug-2011	SL-214-SA6-SB-1.0-2.0	6382930	N	3550B	8270C	III
19-Aug-2011	SL-214-SA6-SB-1.0-2.0	6382930	N	3550B	8270C SIM	III
19-Aug-2011	SL-214-SA6-SB-1.0-2.0	6382930	N	METHOD	300.0	III
19-Aug-2011	SL-214-SA6-SB-1.0-2.0	6382930	N	METHOD	314.0	III
19-Aug-2011	SL-214-SA6-SB-1.0-2.0	6382930	N	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE228

Laboratory: LL

EDD Filename: DE228_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-214-SA6-SB-1.0-2.0

Collected: 8/19/2011 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
FLUORIDE	2.1		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-315-SA6-SB-3.0-4.0

Collected: 8/19/2011 8:14:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.1		0.85	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.3	J	0.85	MDL	1.6	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-214-SA6-SB-1.0-2.0

Collected: 8/19/2011 11:32:00

Analysis Type: REA

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	41800		14.2	MDL	109	PQL	mg/Kg	J	E

Sample ID: SL-214-SA6-SB-1.0-2.0

Collected: 8/19/2011 11:32:00

Analysis Type: REA2

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	25.6	J	1.96	MDL	27.2	PQL	mg/Kg	J	Z

Sample ID: SL-214-SA6-SB-1.0-2.0

Collected: 8/19/2011 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
MANGANESE	512		0.0391	MDL	0.543	PQL	mg/Kg	J	E
POTASSIUM	3680		12.3	MDL	54.3	PQL	mg/Kg	J	Q
TIN	3.52	J	0.348	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	0.986	J	0.500	MDL	5.43	PQL	mg/Kg	J	Z

Sample ID: SL-315-SA6-SB-3.0-4.0

Collected: 8/19/2011 8:14:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.795	J	0.368	MDL	5.11	PQL	mg/Kg	J	Z
IRON	27300		2.67	MDL	20.5	PQL	mg/Kg	J	E
MANGANESE	398		0.0368	MDL	0.511	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: DE228

Laboratory: LL

EDD Filename: DE228_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS	
Method: 6010B	Matrix: SO

Sample ID: SL-315-SA6-SB-3.0-4.0 Collected: 8/19/2011 8:14:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2290		11.6	MDL	51.1	PQL	mg/Kg	J	Q
TIN	2.95	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	0.986	J	0.471	MDL	5.11	PQL	mg/Kg	J	Z

Method Category: METALS	
Method: 6020	Matrix: SO

Sample ID: SL-214-SA6-SB-1.0-2.0 Collected: 8/19/2011 11:32:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.123	J	0.0637	MDL	0.439	PQL	mg/Kg	J	Z

Sample ID: SL-214-SA6-SB-1.0-2.0 Collected: 8/19/2011 11:32:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.484		0.0549	MDL	0.110	PQL	mg/Kg	J	E

Sample ID: SL-214-SA6-SB-1.0-2.0 Collected: 8/19/2011 11:32:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0914	J	0.0812	MDL	0.220	PQL	mg/Kg	J	Z, Q
ARSENIC	9.60		0.0878	MDL	0.439	PQL	mg/Kg	J	E, E
BERYLLIUM	1.12		0.0176	MDL	0.110	PQL	mg/Kg	J	Q
COBALT	13.0		0.0220	MDL	0.110	PQL	mg/Kg	J	E
LEAD	11.2		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, E, Q, E
SILVER	0.0497	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
THALLIUM	0.320		0.0329	MDL	0.110	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-315-SA6-SB-3.0-4.0 Collected: 8/19/2011 8:14:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.114	J	0.0605	MDL	0.417	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE228

Laboratory: LL

EDD Filename: DE228_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-315-SA6-SB-3.0-4.0 Collected: 8/19/2011 8:14:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.479		0.0521	MDL	0.104	PQL	mg/Kg	J	E

Sample ID: SL-315-SA6-SB-3.0-4.0 Collected: 8/19/2011 8:14:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0772	U	0.0772	MDL	0.209	PQL	mg/Kg	UJ	Q
ARSENIC	6.69		0.0834	MDL	0.417	PQL	mg/Kg	J	E, E
BERYLLIUM	0.667		0.0167	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.0682	J	0.0459	MDL	0.104	PQL	mg/Kg	J	Z
COBALT	10.9		0.0209	MDL	0.104	PQL	mg/Kg	J	E
LEAD	6.86		0.0106	MDL	0.209	PQL	mg/Kg	J	Q, E, Q, E
THALLIUM	0.252		0.0313	MDL	0.104	PQL	mg/Kg	J	Q, E, E

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-214-SA6-SB-1.0-2.0 Collected: 8/19/2011 11:32:00 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-315-SA6-SB-3.0-4.0 Collected: 8/19/2011 8:14:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	350	U	350	MDL	1100	PQL	ug/Kg	UJ	Q
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L
BENZIDINE	1200	U	1200	MDL	3500	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: DE228

Laboratory: LL

EDD Filename: DE228_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	Professional Judgment
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: DE228

Laboratory: LL

EDD Filename: DE228_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: DE228

Laboratory: LL

EDD Filename: DE228_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

DE228

Method Blank Outlier Report

Lab Reporting Batch ID: DE228

Laboratory: LL

EDD Filename: DE228_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23508CB221950	8/24/2011 7:50:00 PM	CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS STRONTIUM TIN	4.72 mg/Kg 9.94 mg/Kg 0.485 mg/Kg 0.0738 mg/Kg 1.30 mg/Kg 0.0252 mg/Kg 1.68 mg/Kg	SL-214-SA6-SB-1.0-2.0 SL-315-SA6-SB-3.0-4.0

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-214-SA6-SB-1.0-2.0(RES)	TIN	3.52 mg/Kg	3.52U mg/Kg
SL-315-SA6-SB-3.0-4.0(RES)	TIN	2.95 mg/Kg	2.95U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23526AB220416A	8/25/2011 4:16:00 AM	LEAD	0.0151 mg/Kg	SL-214-SA6-SB-1.0-2.0 SL-315-SA6-SB-3.0-4.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE228

Laboratory: LL

EDD Filename: DE228_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-315-SA6-SB-3.0-4.0MS (SL-214-SA6-SB-1.0-2.0 SL-315-SA6-SB-3.0-4.0)	FLUORIDE	50	-	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-315-SA6-SB-3.0-4.0MSD (SL-315-SA6-SB-3.0-4.0)	4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID	- -	- -	11.00-126.00 10.00-173.00	42 (30.00) 37 (30.00)	4,6-DINITRO-2-METHYLPHEN BENZOIC ACID	J(all detects)
SL-315-SA6-SB-3.0-4.0MS SL-315-SA6-SB-3.0-4.0MSD (SL-315-SA6-SB-3.0-4.0)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)
SL-315-SA6-SB-3.0-4.0MS SL-315-SA6-SB-3.0-4.0MSD (SL-315-SA6-SB-3.0-4.0)	2,4-DINITROPHENOL	19	-	20.00-143.00	51 (30.00)	2,4-DINITROPHENOL	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE228

Laboratory: LL

EDD Filename: DE228_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23526AQ220419A (SL -214-SA6-SB-1.0-2.0 SL -315-SA6-SB-3.0-4.0)	ANTIMONY	61	-	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
P23508CQ221954 (SL -214-SA6-SB-1.0-2.0 SL -315-SA6-SB-3.0-4.0)	ALUMINUM IRON TITANIUM	141 135 167	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON TITANIUM	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
P4LALCSQ261340 (SL -214-SA6-SB-1.0-2.0 SL -315-SA6-SB-3.0-4.0)	4,6-DINITRO-2-METHYLPHENOL	44	-	46.00-120.00	-	4,6-DINITRO-2-METHYLPHEN	J(all detects) UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE228

Laboratory: LL

EDD Filename: DE228_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-315-SA6-SB-3.0-4.0	Nitrate-NO3	J	1.3	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-214-SA6-SB-1.0-2.0	BORON	J	25.6	27.2	PQL	mg/Kg	J (all detects)
	TIN	J	3.52	10.9	PQL	mg/Kg	
	Zirconium	J	0.986	5.43	PQL	mg/Kg	
SL-315-SA6-SB-3.0-4.0	BORON	J	0.795	5.11	PQL	mg/Kg	J (all detects)
	TIN	J	2.95	10.2	PQL	mg/Kg	
	Zirconium	J	0.986	5.11	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-214-SA6-SB-1.0-2.0	ANTIMONY	J	0.0914	0.220	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.123	0.439	PQL	mg/Kg	
	SILVER	J	0.0497	0.110	PQL	mg/Kg	
SL-315-SA6-SB-3.0-4.0	CADMIUM	J	0.0682	0.104	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.114	0.417	PQL	mg/Kg	

LDC #: 26533Q4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE228

ADR

Laboratory: Lancaster Laboratories

Date: 11/7/17

Page: 1 of 1

Reviewer: My

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	No find by 24B/40B,
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	See DE 126
VII.	Duplicate Sample Analysis	SW	
VIII.	Laboratory Control Samples (LCS)	N	SRM
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	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-315-SA6-SB-3.0-4.0	11		21		31	
2	SL-214-SA6-SB-1.0-2.0	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	

Notes: _____

SAMPLE DELIVERY GROUP

DE229

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-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	3050B	6010B	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	3050B	6020	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	3060A	7199	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	3550B	8082	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	3550B	8270C	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	3550B	8270C SIM	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	METHOD	300.0	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	METHOD	314.0	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	METHOD	7471A	III
22-Aug-2011	TB-082211	6384475	TB	5030B	8015M	III
22-Aug-2011	TB-082211	6384475	TB	5030B	8260B	III
22-Aug-2011	TB-082211	6384475	TB	5030B	8260B SIM	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3050B	6010B	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3060A	7199	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3546	1625C	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3550B	8015B	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3550B	8015M	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3550B	8082	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3550B	8270C	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3550B	8270C SIM	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	5035	8015M	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	8330	8330A	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	METHOD	300.0	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	METHOD	314.0	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	METHOD	7471A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	METHOD	8015B	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	METHOD	8015M	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	METHOD	8315A	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	METHOD	9012B	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0DUP	P384465D221008A	DUP	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0DUP	P384465D221008B	DUP	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0DUP	P384465D221008C	DUP	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0DUP	P384465D221008D	DUP	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0DUP	P384465D221009	DUP	3050B	6010B	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0DUP	P384465D221905	DUP	METHOD	7471A	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0DUP	P384465D270035A	DUP	3060A	7199	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0DUP	P384465D270303A	DUP	METHOD	314.0	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0DUP	P384465D271003A	DUP	METHOD	300.0	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MSD	P384465M221018	MSD	3050B	6010B	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MSD	P384465M221120A	MSD	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MSD	P384465M221120B	MSD	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MSD	P384465M221120C	MSD	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MSD	P384465M221120D	MSD	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MSD	P384465M221907	MSD	METHOD	7471A	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MSD	P384465M260058	MSD	3546	1625C	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MSD	P384465M321853A	MSD	METHOD	8015B	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MS	P384465R221011A	MS	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MS	P384465R221011B	MS	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MS	P384465R221011C	MS	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MS	P384465R221011D	MS	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MS	P384465R221014	MS	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MS	P384465R221906	MS	METHOD	7471A	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MS	P384465R260038	MS	3546	1625C	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MS	P384465R270326A	MS	METHOD	314.0	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MS	P384465R271016A	MS	METHOD	300.0	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MS	P384465R272354A	MS	3060A	7199	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MS	P384465R321838A	MS	METHOD	8015B	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384473	N	3050B	6010B	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384473	N	3050B	6020	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384473	N	3060A	7199	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384473	N	3550B	8082	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384473	N	3550B	8270C	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384473	N	3550B	8270C SIM	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384473	N	METHOD	300.0	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384473	N	METHOD	314.0	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384473	N	METHOD	6850	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384473	N	METHOD	7471A	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	3050B	6010B	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	3050B	6020	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	3060A	7199	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	3546	1625C	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	3550B	8015B	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	3550B	8015M	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	3550B	8082	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	3550B	8270C	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	3550B	8270C SIM	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	5035	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	5035	8260B	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	5035	8260B SIM	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	8330	8330A	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	METHOD	300.0	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	METHOD	314.0	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	METHOD	7471A	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	METHOD	8015B	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	METHOD	8015M	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	METHOD	8315A	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	METHOD	9012B	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	3050B	6010B	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	3050B	6020	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	3060A	7199	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	3546	1625C	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	3550B	8015B	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	3550B	8015M	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	3550B	8082	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	3550B	8270C	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	3550B	8270C SIM	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	5035	8015M	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	5035	8260B	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	5035	8260B SIM	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	8330	8330A	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	METHOD	300.0	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	METHOD	314.0	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	METHOD	7471A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	METHOD	8015B	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	METHOD	8015M	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	METHOD	8315A	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	METHOD	9012B	III
22-Aug-2011	SL-242-SA6-SB-9.0-10.0	6384469	N	3050B	6010B	III
22-Aug-2011	SL-242-SA6-SB-9.0-10.0	6384469	N	3050B	6020	III
22-Aug-2011	SL-242-SA6-SB-9.0-10.0	6384469	N	3060A	7199	III
22-Aug-2011	SL-242-SA6-SB-9.0-10.0	6384469	N	3550B	8082	III
22-Aug-2011	SL-242-SA6-SB-9.0-10.0	6384469	N	3550B	8270C	III
22-Aug-2011	SL-242-SA6-SB-9.0-10.0	6384469	N	3550B	8270C SIM	III
22-Aug-2011	SL-242-SA6-SB-9.0-10.0	6384469	N	METHOD	300.0	III
22-Aug-2011	SL-242-SA6-SB-9.0-10.0	6384469	N	METHOD	314.0	III
22-Aug-2011	SL-242-SA6-SB-9.0-10.0	6384469	N	METHOD	7471A	III
22-Aug-2011	SL-242-SA6-SB-4.0-5.0	6384468	N	3050B	6010B	III
22-Aug-2011	SL-242-SA6-SB-4.0-5.0	6384468	N	3050B	6020	III
22-Aug-2011	SL-242-SA6-SB-4.0-5.0	6384468	N	3060A	7199	III
22-Aug-2011	SL-242-SA6-SB-4.0-5.0	6384468	N	3550B	8082	III
22-Aug-2011	SL-242-SA6-SB-4.0-5.0	6384468	N	3550B	8270C	III
22-Aug-2011	SL-242-SA6-SB-4.0-5.0	6384468	N	3550B	8270C SIM	III
22-Aug-2011	SL-242-SA6-SB-4.0-5.0	6384468	N	METHOD	300.0	III
22-Aug-2011	SL-242-SA6-SB-4.0-5.0	6384468	N	METHOD	314.0	III
22-Aug-2011	SL-242-SA6-SB-4.0-5.0	6384468	N	METHOD	7471A	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	3050B	6010B	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	3050B	6020	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	3060A	7199	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	3546	1625C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	3550B	8015B	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	3550B	8015M	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	3550B	8082	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	3550B	8270C	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	3550B	8270C SIM	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	5035	8015M	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	5035	8260B	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	5035	8260B SIM	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	8330	8330A	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	METHOD	300.0	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	METHOD	314.0	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	METHOD	7471A	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	METHOD	8015B	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	METHOD	8015M	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	METHOD	8315A	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	METHOD	9012B	III
22-Aug-2011	SL-241-SA6-SB-4.0-5.0	6384466	N	3050B	6010B	III
22-Aug-2011	SL-241-SA6-SB-4.0-5.0	6384466	N	3050B	6020	III
22-Aug-2011	SL-241-SA6-SB-4.0-5.0	6384466	N	3060A	7199	III
22-Aug-2011	SL-241-SA6-SB-4.0-5.0	6384466	N	3550B	8082	III
22-Aug-2011	SL-241-SA6-SB-4.0-5.0	6384466	N	3550B	8270C	III
22-Aug-2011	SL-241-SA6-SB-4.0-5.0	6384466	N	3550B	8270C SIM	III
22-Aug-2011	SL-241-SA6-SB-4.0-5.0	6384466	N	METHOD	300.0	III
22-Aug-2011	SL-241-SA6-SB-4.0-5.0	6384466	N	METHOD	314.0	III
22-Aug-2011	SL-241-SA6-SB-4.0-5.0	6384466	N	METHOD	7471A	III
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384467	N	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384467	N	3050B	6020	III
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384467	N	3060A	7199	III
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384467	N	3550B	8082	III
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384467	N	3550B	8270C	III
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384467	N	3550B	8270C SIM	III
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384467	N	METHOD	300.0	III
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384467	N	METHOD	314.0	III
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384467	N	METHOD	6850	III
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384467	N	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-007-SA5DN-SS-0.0-0.5		Collected: 8/22/2011 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	3.2		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-215-SA6-SB-4.0-5.0		Collected: 8/22/2011 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	1.4		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-241-SA6-SB-4.0-5.0		Collected: 8/22/2011 12:12:00		Analysis Type: RES			Dilution: 1		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-241-SA6-SB-9.0-10.0		Collected: 8/22/2011 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	0.89	U	0.89	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-242-SA6-SB-4.0-5.0		Collected: 8/22/2011 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	0.87	J	0.85	MDL	1.1	PQL	mg/Kg	J	Z, Q

Sample ID: SL-242-SA6-SB-9.0-10.0		Collected: 8/22/2011 11:04:00		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

Sample ID: SL-279-SA6-SB-1.0-2.0		Collected: 8/22/2011 10:25:00		Analysis Type: RES			Dilution: 1		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.84	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	1.5	J	0.84	MDL	1.6	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: DE229

Laboratory: LL

EDD Filename: DE229_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-279-SA6-SB-4.0-5.0 Collected: 8/22/2011 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
FLUORIDE	0.84	U	0.84	MDL	1.1	PQL	mg/Kg	UJ	Q
Nitrate-NO3	0.93	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-9.0-10.0 Collected: 8/22/2011 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	1.8		0.87	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	0.95	J	0.87	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-310-SA6-SB-4.0-5.0 Collected: 8/22/2011 9:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.7		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-007-SA5DN-SS-0.0-0.5 Collected: 8/22/2011 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
TIN	2.80	J	0.366	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	4.20	J	0.526	MDL	5.71	PQL	mg/Kg	J	Z

Sample ID: SL-215-SA6-SB-4.0-5.0 Collected: 8/22/2011 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
BORON	1.41	J	0.394	MDL	5.47	PQL	mg/Kg	J	Z
TIN	2.70	J	0.350	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.33	J	0.503	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-241-SA6-SB-4.0-5.0 Collected: 8/22/2011 12:12:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.713	J	0.389	MDL	5.40	PQL	mg/Kg	J	Z
TIN	2.65	J	0.346	MDL	10.8	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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ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	6010B	Matrix:	SO
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Sample ID: SL-241-SA6-SB-4.0-5.0 Collected: 8/22/2011 12:12:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.90	J	0.497	MDL	5.40	PQL	mg/Kg	J	Z

Sample ID: SL-241-SA6-SB-9.0-10.0 Collected: 8/22/2011 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
BORON	2.07	J	0.381	MDL	5.30	PQL	mg/Kg	J	Z
TIN	3.14	J	0.339	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.36	J	0.487	MDL	5.30	PQL	mg/Kg	J	Z

Sample ID: SL-242-SA6-SB-4.0-5.0 Collected: 8/22/2011 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
BORON	2.71	J	0.379	MDL	5.26	PQL	mg/Kg	J	Z
SODIUM	91.7	J	6.26	MDL	105	PQL	mg/Kg	J	Z
TIN	2.42	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.85	J	0.484	MDL	5.26	PQL	mg/Kg	J	Z

Sample ID: SL-242-SA6-SB-9.0-10.0 Collected: 8/22/2011 11:04:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.652	J	0.382	MDL	5.31	PQL	mg/Kg	J	Z
TIN	2.96	J	0.340	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.81	J	0.488	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-1.0-2.0 Collected: 8/22/2011 10:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.04	J	0.359	MDL	4.98	PQL	mg/Kg	J	Z
SODIUM	80.3	J	5.93	MDL	99.6	PQL	mg/Kg	J	Z
TIN	2.55	J	0.319	MDL	9.96	PQL	mg/Kg	U	B
Zirconium	1.90	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: DE229

Laboratory: LL

EDD Filename: DE229_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-279-SA6-SB-4.0-5.0 Collected: 8/22/2011 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
BORON	1.05	J	0.378	MDL	5.25	PQL	mg/Kg	J	Z
TIN	2.73	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.51	J	0.483	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-9.0-10.0 Collected: 8/22/2011 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
BORON	0.711	J	0.375	MDL	5.21	PQL	mg/Kg	J	Z
TIN	2.69	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.50	J	0.480	MDL	5.21	PQL	mg/Kg	J	Z

Sample ID: SL-310-SA6-SB-4.0-5.0 Collected: 8/22/2011 9:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.82	J	0.395	MDL	5.48	PQL	mg/Kg	J	Z
TIN	2.88	J	0.351	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	2.55	J	0.504	MDL	5.48	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-007-SA5DN-SS-0.0-0.5 Collected: 8/22/2011 8:00:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.333	J	0.0663	MDL	0.457	PQL	mg/Kg	J	Z, E

Sample ID: SL-007-SA5DN-SS-0.0-0.5 Collected: 8/22/2011 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	0.0846	U	0.0846	MDL	0.229	PQL	mg/Kg	R	Q
ARSENIC	7.48		0.0914	MDL	0.457	PQL	mg/Kg	J	Q, E, E
COBALT	14.0		0.0229	MDL	0.114	PQL	mg/Kg	J	E
COPPER	21.6		0.0914	MDL	0.457	PQL	mg/Kg	J	Q
LEAD	16.2		0.0117	MDL	0.229	PQL	mg/Kg	J	Q, Q, E
NICKEL	26.7		0.114	MDL	0.457	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: DE229

Laboratory: LL

EDD Filename: DE229_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-007-SA5DN-SS-0.0-0.5 Collected: 8/22/2011 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
SILVER	0.0721	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z

Sample ID: SL-215-SA6-SB-4.0-5.0 Collected: 8/22/2011 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	0.106	J	0.0635	MDL	0.438	PQL	mg/Kg	J	Z, E

Sample ID: SL-215-SA6-SB-4.0-5.0 Collected: 8/22/2011 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	0.0810	U	0.0810	MDL	0.219	PQL	mg/Kg	R	Q
ARSENIC	7.22		0.0876	MDL	0.438	PQL	mg/Kg	J	Q, E, E
CADMIUM	0.105	J	0.0482	MDL	0.109	PQL	mg/Kg	J	Z
COBALT	7.10		0.0219	MDL	0.109	PQL	mg/Kg	J	E
COPPER	12.7		0.0876	MDL	0.438	PQL	mg/Kg	J	Q
LEAD	8.77		0.0112	MDL	0.219	PQL	mg/Kg	J	Q, Q, E
NICKEL	16.8		0.109	MDL	0.438	PQL	mg/Kg	J	Q
SILVER	0.0722	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: SL-241-SA6-SB-4.0-5.0 Collected: 8/22/2011 12:12:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0675	J	0.0626	MDL	0.432	PQL	mg/Kg	J	Z, E

Sample ID: SL-241-SA6-SB-4.0-5.0 Collected: 8/22/2011 12:12:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0799	U	0.0799	MDL	0.216	PQL	mg/Kg	R	Q
ARSENIC	5.86		0.0864	MDL	0.432	PQL	mg/Kg	J	Q, E, E
CADMIUM	0.0662	J	0.0475	MDL	0.108	PQL	mg/Kg	J	Z
COBALT	6.78		0.0216	MDL	0.108	PQL	mg/Kg	J	E
COPPER	8.82		0.0864	MDL	0.432	PQL	mg/Kg	J	Q
LEAD	6.02		0.0110	MDL	0.216	PQL	mg/Kg	J	Q, Q, E
NICKEL	15.5		0.108	MDL	0.432	PQL	mg/Kg	J	Q
SILVER	0.0429	J	0.0153	MDL	0.108	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: DE229

Laboratory: LL

EDD Filename: DE229_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-241-SA6-SB-9.0-10.0 Collected: 8/22/2011 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	0.0790	J	0.0614	MDL	0.424	PQL	mg/Kg	J	Z, E

Sample ID: SL-241-SA6-SB-9.0-10.0 Collected: 8/22/2011 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	0.0784	U	0.0784	MDL	0.212	PQL	mg/Kg	R	Q
ARSENIC	9.55		0.0848	MDL	0.424	PQL	mg/Kg	J	Q, E, E
COBALT	7.67		0.0212	MDL	0.106	PQL	mg/Kg	J	E
COPPER	12.9		0.0848	MDL	0.424	PQL	mg/Kg	J	Q
LEAD	9.52		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, Q, E
NICKEL	16.6		0.106	MDL	0.424	PQL	mg/Kg	J	Q
SILVER	0.0751	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-242-SA6-SB-4.0-5.0 Collected: 8/22/2011 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	0.145	J	0.0610	MDL	0.421	PQL	mg/Kg	J	Z, E

Sample ID: SL-242-SA6-SB-4.0-5.0 Collected: 8/22/2011 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	0.0779	U	0.0779	MDL	0.210	PQL	mg/Kg	R	Q
ARSENIC	5.34		0.0842	MDL	0.421	PQL	mg/Kg	J	Q, E, E
COBALT	8.80		0.0210	MDL	0.105	PQL	mg/Kg	J	E
COPPER	15.8		0.0842	MDL	0.421	PQL	mg/Kg	J	Q
LEAD	6.95		0.0107	MDL	0.210	PQL	mg/Kg	J	Q, Q, E
NICKEL	22.3		0.105	MDL	0.421	PQL	mg/Kg	J	Q
SILVER	0.0564	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-242-SA6-SB-9.0-10.0 Collected: 8/22/2011 11:04:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0954	J	0.0615	MDL	0.424	PQL	mg/Kg	J	Z, 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: DE229

Laboratory: LL

EDD Filename: DE229_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS			
Method:	6020	Matrix:	SO	

Sample ID: SL-242-SA6-SB-9.0-10.0 Collected: 8/22/2011 11:04:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0785	U	0.0785	MDL	0.212	PQL	mg/Kg	R	Q
ARSENIC	7.11		0.0849	MDL	0.424	PQL	mg/Kg	J	Q, E, E
COBALT	6.19		0.0212	MDL	0.106	PQL	mg/Kg	J	E
COPPER	11.6		0.0849	MDL	0.424	PQL	mg/Kg	J	Q
LEAD	7.39		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, Q, E
NICKEL	18.0		0.106	MDL	0.424	PQL	mg/Kg	J	Q
SILVER	0.0498	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-1.0-2.0 Collected: 8/22/2011 10:25:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.110	J	0.0578	MDL	0.398	PQL	mg/Kg	J	Z, E

Sample ID: SL-279-SA6-SB-1.0-2.0 Collected: 8/22/2011 10:25:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0737	U	0.0737	MDL	0.199	PQL	mg/Kg	R	Q
ARSENIC	6.95		0.0797	MDL	0.398	PQL	mg/Kg	J	Q, E, E
COBALT	7.67		0.0199	MDL	0.0996	PQL	mg/Kg	J	E
COPPER	12.5		0.0797	MDL	0.398	PQL	mg/Kg	J	Q
LEAD	5.85		0.0102	MDL	0.199	PQL	mg/Kg	J	Q, Q, E
NICKEL	17.0		0.0996	MDL	0.398	PQL	mg/Kg	J	Q
SILVER	0.0628	J	0.0141	MDL	0.0996	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-4.0-5.0 Collected: 8/22/2011 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	0.0887	J	0.0609	MDL	0.420	PQL	mg/Kg	J	Z, E

Sample ID: SL-279-SA6-SB-4.0-5.0 Collected: 8/22/2011 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	0.0777	U	0.0777	MDL	0.210	PQL	mg/Kg	R	Q
ARSENIC	9.27		0.0840	MDL	0.420	PQL	mg/Kg	J	Q, E, E
CADMIUM	0.0918	J	0.0462	MDL	0.105	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: DE229

Laboratory: LL

EDD Filename: DE229_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-279-SA6-SB-4.0-5.0 Collected: 8/22/2011 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
COBALT	9.08		0.0210	MDL	0.105	PQL	mg/Kg	J	E
COPPER	11.1		0.0840	MDL	0.420	PQL	mg/Kg	J	Q
LEAD	7.29		0.0107	MDL	0.210	PQL	mg/Kg	J	Q, Q, E
NICKEL	18.0		0.105	MDL	0.420	PQL	mg/Kg	J	Q
SILVER	0.0882	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-9.0-10.0 Collected: 8/22/2011 11:50:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0605	U	0.0605	MDL	0.417	PQL	mg/Kg	UJ	E

Sample ID: SL-279-SA6-SB-9.0-10.0 Collected: 8/22/2011 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	0.0772	U	0.0772	MDL	0.209	PQL	mg/Kg	R	Q
ARSENIC	6.47		0.0834	MDL	0.417	PQL	mg/Kg	J	Q, E, E
COBALT	7.30		0.0209	MDL	0.104	PQL	mg/Kg	J	E
COPPER	9.78		0.0834	MDL	0.417	PQL	mg/Kg	J	Q
LEAD	6.26		0.0106	MDL	0.209	PQL	mg/Kg	J	Q, Q, E
NICKEL	15.9		0.104	MDL	0.417	PQL	mg/Kg	J	Q
SILVER	0.0422	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-310-SA6-SB-4.0-5.0 Collected: 8/22/2011 9:15:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.146	J	0.0636	MDL	0.439	PQL	mg/Kg	J	Z, E

Sample ID: SL-310-SA6-SB-4.0-5.0 Collected: 8/22/2011 9:15:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0812	U	0.0812	MDL	0.219	PQL	mg/Kg	R	Q
ARSENIC	7.17		0.0877	MDL	0.439	PQL	mg/Kg	J	Q, E, E
COBALT	10.4		0.0219	MDL	0.110	PQL	mg/Kg	J	E
COPPER	23.1		0.0877	MDL	0.439	PQL	mg/Kg	J	Q
LEAD	11.9		0.0112	MDL	0.219	PQL	mg/Kg	J	Q, Q, 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: DE229

Laboratory: LL

EDD Filename: DE229_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-310-SA6-SB-4.0-5.0 Collected: 8/22/2011 9:15:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	28.4		0.110	MDL	0.439	PQL	mg/Kg	J	Q
SILVER	0.0698	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-007-SA5DN-SS-0.0-0.5 Collected: 8/22/2011 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
HEXAVALENT CHROMIUM	0.23	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-241-SA6-SB-4.0-5.0 Collected: 8/22/2011 12:12:00 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-241-SA6-SB-9.0-10.0 Collected: 8/22/2011 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	0.51	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-242-SA6-SB-4.0-5.0 Collected: 8/22/2011 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
HEXAVALENT CHROMIUM	0.24	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-242-SA6-SB-9.0-10.0 Collected: 8/22/2011 11:04:00 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	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-1.0-2.0 Collected: 8/22/2011 10:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.21	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

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Data Qualifier Summary

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-279-SA6-SB-9.0-10.0 Collected: 8/22/2011 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	0.32	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-310-SA6-SB-4.0-5.0 Collected: 8/22/2011 9:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.55	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-007-SA5DN-SS-0.0-0.5 Collected: 8/22/2011 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	0.0139	J	0.0075	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-1.0-2.0 Collected: 8/22/2011 10:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0090	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-4.0-5.0 Collected: 8/22/2011 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	0.0106	J	0.0075	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-9.0-10.0 Collected: 8/22/2011 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	0.0106	J	0.0076	MDL	0.107	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8015M	Matrix:	SO
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Sample ID: SL-215-SA6-SB-4.0-5.0	Collected: 8/22/2011 8:10:00	Analysis Type: DL2	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	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-1.0-2.0	Collected: 8/22/2011 10:25:00	Analysis Type: DL2	Dilution: 5						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	2.8	J	2.1	MDL	6.3	PQL	mg/Kg	J	Z
EFH (C8-C11)	2.9	J	2.1	MDL	6.3	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-9.0-10.0	Collected: 8/22/2011 11:50:00	Analysis Type: DL2	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.67	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Method Category:	SVOA	Method:	8082	Matrix:	SO
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Sample ID: SL-215-SA6-SB-4.0-5.0	Collected: 8/22/2011 8:10:00	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	0.85	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-279-SA6-SB-4.0-5.0	Collected: 8/22/2011 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
AROCLOR 1254	1.5	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	1.1	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	3.2	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z

Sample ID: SL-279-SA6-SB-9.0-10.0	Collected: 8/22/2011 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
AROCLOR 1254	0.82	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.90	J	0.42	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	2.8	J	1.1	MDL	3.6	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: DE229

Laboratory: LL

EDD Filename: DE229_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Matrix:	SO
Method:	8082		

Sample ID: SL-310-SA6-SB-4.0-5.0 Collected: 8/22/2011 9:15:00 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 1260	0.73	J	0.43	MDL	1.9	PQL	ug/Kg	J	Z

Method Category:	SVOA	Matrix:	SO
Method:	8270C		

Sample ID: SL-007-SA5DN-SS-0.0-0.5 Collected: 8/22/2011 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
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	570	PQL	ug/Kg	UJ	L
BENZO(G,H,I)PERYLENE	41	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-215-SA6-SB-4.0-5.0 Collected: 8/22/2011 8:10:00 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	190	U	190	MDL	560	PQL	ug/Kg	UJ	L

Sample ID: SL-241-SA6-SB-4.0-5.0 Collected: 8/22/2011 12:12:00 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-241-SA6-SB-9.0-10.0 Collected: 8/22/2011 12:13:00 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-242-SA6-SB-4.0-5.0 Collected: 8/22/2011 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
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L

Sample ID: SL-242-SA6-SB-9.0-10.0 Collected: 8/22/2011 11:04:00 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	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: DE229

Laboratory: LL

EDD Filename: DE229_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-279-SA6-SB-1.0-2.0	Collected: 8/22/2011 10:25:00	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-279-SA6-SB-4.0-5.0	Collected: 8/22/2011 11:00:00	Analysis Type: RES-ACID	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-279-SA6-SB-9.0-10.0	Collected: 8/22/2011 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	180	U	180	MDL	540	PQL	ug/Kg	UJ	L

Sample ID: SL-310-SA6-SB-4.0-5.0	Collected: 8/22/2011 9:15:00	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	190	U	190	MDL	560	PQL	ug/Kg	UJ	L

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

Sample ID: SL-007-SA5DN-SS-0.0-0.5	Collected: 8/22/2011 8:00:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 5						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	2.7	J	1.9	MDL	9.4	PQL	ug/Kg	J	Z

Sample ID: SL-215-SA6-SB-4.0-5.0	Collected: 8/22/2011 8:10:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.45	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-279-SA6-SB-9.0-10.0	Collected: 8/22/2011 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
CHRYSENE	0.49	J	0.36	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: DE229

Laboratory: LL

EDD Filename: DE229_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	VOA	
Method:	8260B	Matrix: SO

Sample ID: SL-279-SA6-SB-1.0-2.0 Collected: 8/22/2011 10:25:00 Analysis Type: RES Dilution: 1.07

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.2	J	0.27	MDL	4.5	PQL	ug/Kg	U	B
TOLUENE	0.36	J	0.09	MDL	4.5	PQL	ug/Kg	J	Z

Sample ID: SL-279-SA6-SB-4.0-5.0 Collected: 8/22/2011 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
METHYLENE CHLORIDE	0.82	J	0.25	MDL	4.2	PQL	ug/Kg	U	B
TOLUENE	0.27	J	0.08	MDL	4.2	PQL	ug/Kg	J	Z

Sample ID: SL-279-SA6-SB-9.0-10.0 Collected: 8/22/2011 11:50:00 Analysis Type: RES Dilution: 0.94

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.0	J	0.24	MDL	4.1	PQL	ug/Kg	U	B
TOLUENE	0.19	J	0.08	MDL	4.1	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: DE229

Laboratory: LL

EDD Filename: DE229_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: DE229

Laboratory: LL

EDD Filename: DE229_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: DE229

Laboratory: LL

EDD Filename: DE229_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

DE229

Method Blank Outlier Report

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23608EB220949	8/31/2011 9:49:00 AM	CALCIUM IRON MANGANESE PHOSPHORUS STRONTIUM TIN	7.55 mg/Kg 4.64 mg/Kg 0.0441 mg/Kg 1.52 mg/Kg 0.0412 mg/Kg 1.84 mg/Kg	SL-007-SA5DN-SS-0.0-0.5 SL-215-SA6-SB-4.0-5.0 SL-241-SA6-SB-4.0-5.0 SL-241-SA6-SB-9.0-10.0 SL-242-SA6-SB-4.0-5.0 SL-242-SA6-SB-9.0-10.0 SL-279-SA6-SB-1.0-2.0 SL-279-SA6-SB-4.0-5.0 SL-279-SA6-SB-9.0-10.0 SL-310-SA6-SB-4.0-5.0

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-007-SA5DN-SS-0.0-0.5(RES)	TIN	2.80 mg/Kg	2.80U mg/Kg
SL-215-SA6-SB-4.0-5.0(RES)	TIN	2.70 mg/Kg	2.70U mg/Kg
SL-241-SA6-SB-4.0-5.0(RES)	TIN	2.65 mg/Kg	2.65U mg/Kg
SL-241-SA6-SB-9.0-10.0(RES)	TIN	3.14 mg/Kg	3.14U mg/Kg
SL-242-SA6-SB-4.0-5.0(RES)	TIN	2.42 mg/Kg	2.42U mg/Kg
SL-242-SA6-SB-9.0-10.0(RES)	TIN	2.96 mg/Kg	2.96U mg/Kg
SL-279-SA6-SB-1.0-2.0(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-279-SA6-SB-4.0-5.0(RES)	TIN	2.73 mg/Kg	2.73U mg/Kg
SL-279-SA6-SB-9.0-10.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg
SL-310-SA6-SB-4.0-5.0(RES)	TIN	2.88 mg/Kg	2.88U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23608EB220956A	8/30/2011 9:56:00 AM	VANADIUM	0.0917 mg/Kg	SL-007-SA5DN-SS-0.0-0.5 SL-215-SA6-SB-4.0-5.0 SL-241-SA6-SB-4.0-5.0 SL-241-SA6-SB-9.0-10.0 SL-242-SA6-SB-4.0-5.0 SL-242-SA6-SB-9.0-10.0 SL-279-SA6-SB-1.0-2.0 SL-279-SA6-SB-4.0-5.0 SL-279-SA6-SB-9.0-10.0 SL-310-SA6-SB-4.0-5.0

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB49B211347A	8/25/2011 1:47:00 PM	CHLOROFORM METHYLENE CHLORIDE	0.15 ug/Kg 0.62 ug/Kg	SL-279-SA6-SB-1.0-2.0 SL-279-SA6-SB-4.0-5.0 SL-279-SA6-SB-9.0-10.0

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: DE229

Laboratory: LL

EDD Filename: DE229_v1

eQAPP Name: CDM_SSFL_110509

Method: 8260B
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-279-SA6-SB-1.0-2.0(RES)	METHYLENE CHLORIDE	1.2 ug/Kg	4.5U ug/Kg
SL-279-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.82 ug/Kg	4.2U ug/Kg
SL-279-SA6-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.0 ug/Kg	4.1U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229_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-215-SA6-SB-4.0-5.0MS SL-215-SA6-SB-4.0-5.0MSD (SL-007-SA5DN-SS-0.0-0.5 SL -215-SA6-SB-4.0-5.0 SL -241-SA6-SB-4.0-5.0 SL -241-SA6-SB-9.0-10.0 SL -242-SA6-SB-4.0-5.0 SL -242-SA6-SB-9.0-10.0 SL -279-SA6-SB-1.0-2.0 SL -279-SA6-SB-4.0-5.0 SL -279-SA6-SB-9.0-10.0 SL -310-SA6-SB-4.0-5.0)	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE TITANIUM	2403 227 2058 370 203 261	4510 379 3214 718 - 264	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 IRON MAGNESIUM MANGANESE TITANIUM	No Qual, >4x

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-215-SA6-SB-4.0-5.0MS (SL-007-SA5DN-SS-0.0-0.5 SL -215-SA6-SB-4.0-5.0 SL -241-SA6-SB-4.0-5.0 SL -241-SA6-SB-9.0-10.0 SL -242-SA6-SB-4.0-5.0 SL -242-SA6-SB-9.0-10.0 SL -279-SA6-SB-1.0-2.0 SL -279-SA6-SB-4.0-5.0 SL -279-SA6-SB-9.0-10.0 SL -310-SA6-SB-4.0-5.0)	COPPER NICKEL	142 146	- -	75.00-125.00 75.00-125.00	- -	COPPER NICKEL	J(all detects)
SL-215-SA6-SB-4.0-5.0MS SL-215-SA6-SB-4.0-5.0MSD (SL-007-SA5DN-SS-0.0-0.5 SL -215-SA6-SB-4.0-5.0 SL -241-SA6-SB-4.0-5.0 SL -241-SA6-SB-9.0-10.0 SL -242-SA6-SB-4.0-5.0 SL -242-SA6-SB-9.0-10.0 SL -279-SA6-SB-1.0-2.0 SL -279-SA6-SB-4.0-5.0 SL -279-SA6-SB-9.0-10.0 SL -310-SA6-SB-4.0-5.0)	ANTIMONY ARSENIC VANADIUM	28 - -	22 1 7	75.00-125.00 75.00-125.00 75.00-125.00	28 (20.00) 25 (20.00) -	ANTIMONY ARSENIC VANADIUM	J(all detects) R(all non-detects) V, No Qual, >4x Sb post spike = 61% As post spike = 66%
SL-215-SA6-SB-4.0-5.0MS SL-215-SA6-SB-4.0-5.0MSD (SL-007-SA5DN-SS-0.0-0.5 SL -215-SA6-SB-4.0-5.0 SL -241-SA6-SB-4.0-5.0 SL -241-SA6-SB-9.0-10.0 SL -242-SA6-SB-4.0-5.0 SL -242-SA6-SB-9.0-10.0 SL -279-SA6-SB-1.0-2.0 SL -279-SA6-SB-4.0-5.0 SL -279-SA6-SB-9.0-10.0 SL -310-SA6-SB-4.0-5.0)	COBALT LEAD ZINC	- 138 142	- 37 36	75.00-125.00 75.00-125.00 75.00-125.00	22 (20.00) 29 (20.00) -	COBALT LEAD ZINC	J(all detects) UJ(all non-detects) Zn, No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229_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-215-SA6-SB-4.0-5.0MSD (SL-007-SA5DN-SS-0.0-0.5 SL -215-SA6-SB-4.0-5.0 SL -241-SA6-SB-4.0-5.0 SL -241-SA6-SB-9.0-10.0 SL -242-SA6-SB-4.0-5.0 SL -242-SA6-SB-9.0-10.0 SL -279-SA6-SB-1.0-2.0 SL -279-SA6-SB-4.0-5.0 SL -279-SA6-SB-9.0-10.0 SL -310-SA6-SB-4.0-5.0)	SELENIUM	-	-	75.00-125.00	21 (20.00)	SELENIUM	J(all detects) UJ(all non-detects)
SL-215-SA6-SB-4.0-5.0MS SL-215-SA6-SB-4.0-5.0MSD (SL-007-SA5DN-SS-0.0-0.5 SL -215-SA6-SB-4.0-5.0 SL -241-SA6-SB-4.0-5.0 SL -241-SA6-SB-9.0-10.0 SL -242-SA6-SB-4.0-5.0 SL -242-SA6-SB-9.0-10.0 SL -279-SA6-SB-1.0-2.0 SL -279-SA6-SB-4.0-5.0 SL -279-SA6-SB-9.0-10.0 SL -310-SA6-SB-4.0-5.0)	BARIUM	278	45	75.00-125.00	-	BARIUM	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-215-SA6-SB-4.0-5.0MS (SL-007-SA5DN-SS-0.0-0.5 SL -215-SA6-SB-4.0-5.0 SL -241-SA6-SB-4.0-5.0 SL -241-SA6-SB-9.0-10.0 SL -242-SA6-SB-4.0-5.0 SL -242-SA6-SB-9.0-10.0 SL -279-SA6-SB-1.0-2.0 SL -279-SA6-SB-4.0-5.0 SL -279-SA6-SB-9.0-10.0 SL -310-SA6-SB-4.0-5.0)	FLUORIDE	34	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-215-SA6-SB-4.0-5.0DUP (SL-007-SA5DN-SS-0.0-0.5 SL -215-SA6-SB-4.0-5.0 SL -241-SA6-SB-4.0-5.0 SL -241-SA6-SB-9.0-10.0 SL -242-SA6-SB-4.0-5.0 SL -242-SA6-SB-9.0-10.0 SL -279-SA6-SB-1.0-2.0 SL -279-SA6-SB-4.0-5.0 SL -279-SA6-SB-9.0-10.0 SL -310-SA6-SB-4.0-5.0)	FLUORIDE	25	20.00	No Qual, OK by Difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-215-SA6-SB-4.0-5.0DUP (SL-007-SA5DN-SS-0.0-0.5 SL -215-SA6-SB-4.0-5.0 SL -241-SA6-SB-4.0-5.0 SL -241-SA6-SB-9.0-10.0 SL -242-SA6-SB-4.0-5.0 SL -242-SA6-SB-9.0-10.0 SL -279-SA6-SB-1.0-2.0 SL -279-SA6-SB-4.0-5.0 SL -279-SA6-SB-9.0-10.0 SL -310-SA6-SB-4.0-5.0)	Zirconium	40	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-215-SA6-SB-4.0-5.0DUP (SL-007-SA5DN-SS-0.0-0.5 SL -215-SA6-SB-4.0-5.0 SL -241-SA6-SB-4.0-5.0 SL -241-SA6-SB-9.0-10.0 SL -242-SA6-SB-4.0-5.0 SL -242-SA6-SB-9.0-10.0 SL -279-SA6-SB-1.0-2.0 SL -279-SA6-SB-4.0-5.0 SL -279-SA6-SB-9.0-10.0 SL -310-SA6-SB-4.0-5.0)	ARSENIC CADMIUM SELENIUM	28 27 34	20.00 20.00 20.00	J(all detects) UJ(all non-detects) Cd, Se, No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229_v1

eQAPP Name: CDM_SSFL_110509

Method: 8260B
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSY85Q211115A (TB-082211)	BROMOCHLOROMETHANE	121	-	80.00-120.00	-	BROMOCHLOROMETHANE	J(all detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23608EQ220953 (SL-007-SA5DN-SS-0.0-0.5 SL -215-SA6-SB-4.0-5.0 SL -241-SA6-SB-4.0-5.0 SL -241-SA6-SB-9.0-10.0 SL -242-SA6-SB-4.0-5.0 SL -242-SA6-SB-9.0-10.0 SL -279-SA6-SB-1.0-2.0 SL -279-SA6-SB-4.0-5.0 SL -279-SA6-SB-9.0-10.0 SL -310-SA6-SB-4.0-5.0)	ALUMINUM MAGNESIUM TITANIUM	146 121 175	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM MAGNESIUM TITANIUM	No Qual, SRM within QC Limits

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23608EQ220959A (SL-007-SA5DN-SS-0.0-0.5 SL -215-SA6-SB-4.0-5.0 SL -241-SA6-SB-4.0-5.0 SL -241-SA6-SB-9.0-10.0 SL -242-SA6-SB-4.0-5.0 SL -242-SA6-SB-9.0-10.0 SL -279-SA6-SB-1.0-2.0 SL -279-SA6-SB-4.0-5.0 SL -279-SA6-SB-9.0-10.0 SL -310-SA6-SB-4.0-5.0)	ANTIMONY	56	-	80.00-120.00	-	ANTIMONY	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
P4LALCSQ261340 (SL-007-SA5DN-SS-0.0-0.5 SL -215-SA6-SB-4.0-5.0 SL -241-SA6-SB-4.0-5.0 SL -241-SA6-SB-9.0-10.0 SL -242-SA6-SB-4.0-5.0 SL -242-SA6-SB-9.0-10.0 SL -279-SA6-SB-1.0-2.0 SL -279-SA6-SB-4.0-5.0 SL -279-SA6-SB-9.0-10.0 SL -310-SA6-SB-4.0-5.0)	4,6-DINITRO-2-METHYLPHENOL	44	-	46.00-120.00	-	4,6-DINITRO-2-METHYLPHEN	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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Reporting Limit Outliers

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-242-SA6-SB-4.0-5.0	FLUORIDE	J	0.87	1.1	PQL	mg/Kg	J (all detects)
SL-279-SA6-SB-1.0-2.0	Nitrate-NO3	J	1.5	1.6	PQL	mg/Kg	J (all detects)
SL-279-SA6-SB-4.0-5.0	Nitrate-NO3	J	0.93	1.6	PQL	mg/Kg	J (all detects)
SL-279-SA6-SB-9.0-10.0	Nitrate-NO3	J	0.95	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SS-0.0-0.5	TIN	J	2.80	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.20	5.71	PQL	mg/Kg	
SL-215-SA6-SB-4.0-5.0	BORON	J	1.41	5.47	PQL	mg/Kg	J (all detects)
	TIN	J	2.70	10.9	PQL	mg/Kg	
	Zirconium	J	1.33	5.47	PQL	mg/Kg	
SL-241-SA6-SB-4.0-5.0	BORON	J	0.713	5.40	PQL	mg/Kg	J (all detects)
	TIN	J	2.65	10.8	PQL	mg/Kg	
	Zirconium	J	1.90	5.40	PQL	mg/Kg	
SL-241-SA6-SB-9.0-10.0	BORON	J	2.07	5.30	PQL	mg/Kg	J (all detects)
	TIN	J	3.14	10.6	PQL	mg/Kg	
	Zirconium	J	1.36	5.30	PQL	mg/Kg	
SL-242-SA6-SB-4.0-5.0	BORON	J	2.71	5.26	PQL	mg/Kg	J (all detects)
	SODIUM	J	91.7	105	PQL	mg/Kg	
	TIN	J	2.42	10.5	PQL	mg/Kg	
	Zirconium	J	1.85	5.26	PQL	mg/Kg	
SL-242-SA6-SB-9.0-10.0	BORON	J	0.652	5.31	PQL	mg/Kg	J (all detects)
	TIN	J	2.96	10.6	PQL	mg/Kg	
	Zirconium	J	1.81	5.31	PQL	mg/Kg	
SL-279-SA6-SB-1.0-2.0	BORON	J	2.04	4.98	PQL	mg/Kg	J (all detects)
	SODIUM	J	80.3	99.6	PQL	mg/Kg	
	TIN	J	2.55	9.96	PQL	mg/Kg	
	Zirconium	J	1.90	4.98	PQL	mg/Kg	
SL-279-SA6-SB-4.0-5.0	BORON	J	1.05	5.25	PQL	mg/Kg	J (all detects)
	TIN	J	2.73	10.5	PQL	mg/Kg	
	Zirconium	J	1.51	5.25	PQL	mg/Kg	
SL-279-SA6-SB-9.0-10.0	BORON	J	0.711	5.21	PQL	mg/Kg	J (all detects)
	TIN	J	2.69	10.4	PQL	mg/Kg	
	Zirconium	J	1.50	5.21	PQL	mg/Kg	
SL-310-SA6-SB-4.0-5.0	BORON	J	1.82	5.48	PQL	mg/Kg	J (all detects)
	TIN	J	2.88	11.0	PQL	mg/Kg	
	Zirconium	J	2.55	5.48	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SS-0.0-0.5	SELENIUM	J	0.333	0.457	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0721	0.114	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-215-SA6-SB-4.0-5.0	CADMIUM	J	0.105	0.109	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.106	0.438	PQL	mg/Kg	
	SILVER	J	0.0722	0.109	PQL	mg/Kg	
SL-241-SA6-SB-4.0-5.0	CADMIUM	J	0.0662	0.108	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0675	0.432	PQL	mg/Kg	
	SILVER	J	0.0429	0.108	PQL	mg/Kg	
SL-241-SA6-SB-9.0-10.0	SELENIUM	J	0.0790	0.424	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0751	0.106	PQL	mg/Kg	
SL-242-SA6-SB-4.0-5.0	SELENIUM	J	0.145	0.421	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0564	0.105	PQL	mg/Kg	
SL-242-SA6-SB-9.0-10.0	SELENIUM	J	0.0954	0.424	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0498	0.106	PQL	mg/Kg	
SL-279-SA6-SB-1.0-2.0	SELENIUM	J	0.110	0.398	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0628	0.0996	PQL	mg/Kg	
SL-279-SA6-SB-4.0-5.0	CADMIUM	J	0.0918	0.105	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0887	0.420	PQL	mg/Kg	
	SILVER	J	0.0882	0.105	PQL	mg/Kg	
SL-279-SA6-SB-9.0-10.0	SILVER	J	0.0422	0.104	PQL	mg/Kg	J (all detects)
SL-310-SA6-SB-4.0-5.0	SELENIUM	J	0.146	0.439	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0698	0.110	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.23	1.1	PQL	mg/Kg	J (all detects)
SL-241-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)
SL-241-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.51	1.1	PQL	mg/Kg	J (all detects)
SL-242-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.24	1.1	PQL	mg/Kg	J (all detects)
SL-242-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.37	1.1	PQL	mg/Kg	J (all detects)
SL-279-SA6-SB-1.0-2.0	HEXAVALENT CHROMIUM	J	0.26	1.1	PQL	mg/Kg	J (all detects)
SL-279-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)
SL-310-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.55	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SS-0.0-0.5	MERCURY	J	0.0139	0.107	PQL	mg/Kg	J (all detects)
SL-279-SA6-SB-1.0-2.0	MERCURY	J	0.0090	0.102	PQL	mg/Kg	J (all detects)
SL-279-SA6-SB-4.0-5.0	MERCURY	J	0.0106	0.106	PQL	mg/Kg	J (all detects)
SL-279-SA6-SB-9.0-10.0	MERCURY	J	0.0106	0.107	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-215-SA6-SB-4.0-5.0	EFH (C30-C40)	J	1.1	1.4	PQL	mg/Kg	J (all detects)
SL-279-SA6-SB-1.0-2.0	EFH (C15-C20)	J	2.8	6.3	PQL	mg/Kg	J (all detects)
	EFH (C8-C11)	J	2.9	6.3	PQL	mg/Kg	
SL-279-SA6-SB-9.0-10.0	EFH (C15-C20)	J	0.67	1.3	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-215-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.85	1.9	PQL	ug/Kg	J (all detects)
SL-279-SA6-SB-4.0-5.0	AROCLOR 1254	J	1.5	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.1	1.8	PQL	ug/Kg	
	Aroclor 5460	J	3.2	3.5	PQL	ug/Kg	
SL-279-SA6-SB-9.0-10.0	AROCLOR 1254	J	0.82	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.90	1.8	PQL	ug/Kg	
	Aroclor 5460	J	2.8	3.6	PQL	ug/Kg	
SL-310-SA6-SB-4.0-5.0	AROCLOR 1260	J	0.73	1.9	PQL	ug/Kg	J (all detects)

Method: 8260B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-279-SA6-SB-1.0-2.0	METHYLENE CHLORIDE	J	1.2	4.5	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.36	4.5	PQL	ug/Kg	
SL-279-SA6-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.82	4.2	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.27	4.2	PQL	ug/Kg	
SL-279-SA6-SB-9.0-10.0	METHYLENE CHLORIDE	J	1.0	4.1	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.19	4.1	PQL	ug/Kg	

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	41	190	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SS-0.0-0.5	CHRYSENE	J	2.7	9.4	PQL	ug/Kg	J (all detects)
SL-215-SA6-SB-4.0-5.0	CHRYSENE	J	0.45	1.9	PQL	ug/Kg	J (all detects)
SL-279-SA6-SB-9.0-10.0	CHRYSENE	J	0.49	1.8	PQL	ug/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: DE229

Laboratory: LL

EDD Filename: DE229_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

<i>SampleID</i>	<i>Analyte</i>	<i>Lab Qual</i>	<i>Result</i>	<i>Reporting Limit</i>	<i>RL Type</i>	<i>Units</i>	<i>Flag</i>
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LDC #: 26533R4

VALIDATION COMPLETENESS WORKSHEET

Date: 4/7/11

SDG #: DE229

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	P	
III.	Calibration	N	
IV.	Blanks	SW	No find by 20B/20C
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Mn, Ti, V, Zn > 4x
VII.	Duplicate Sample Analysis	SW	Cd, Se, Zr < 5x, RL
VIII.	Laboratory Control Samples (LCS)	N A	SRM
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	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-215-SA6-SB-4.0-5.0	11	# 1 mg	21		31	
2	SL-241-SA6-SB-4.0-5.0	12	1 mg	22		32	
3	SL-241-SA6-SB-9.0-10.0	13	2 mg	23		33	
4	SL-242-SA6-SB-4.0-5.0	14		24		34	
5	SL-242-SA6-SB-9.0-10.0	15		25		35	
6	SL-279-SA6-SB-1.0-2.0	16		26		36	
7	SL-279-SA6-SB-4.0-5.0	17		27		37	
8	SL-279-SA6-SB-9.0-10.0	18		28		38	
9	SL-310-SA6-SB-4.0-5.0	19		29		39	
10	SL-007-SA5DN-SS-0.0-0.5	20		30		40	

Notes: _____



QUALITY ASSURANCE SUMMARY
 FORM 5A (MS/MSD)
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE
 SDG No.: DE229
 Matrix: SOIL
 Level (Low/med): LOW

Background Lab Sample ID: 6384465BKG Matrix Spike Lab Sample ID: 6384465MS Matrix Spike Duplicate Lab Sample ID: 6384465MSD
 & Solids for Sample: 88.7
 Batch Id(s): P23608E, P23611A

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	-	18852.5191		24164.3920		28630.1947		221.0580	216.8059	MG/KG	2403	2403	4510	17	75 - 125	20P
Antimony	121	0.0810	U	0.3696		0.2797		1.3263	1.3008	MG/KG	28	28	22	28	75 - 125	20MS
Arsenic	75	7.2219		9.3176		7.2413		2.2106	2.1681	MG/KG	95	95	1	25	75 - 125	20MS
Barium	137	132.8138		163.4945		137.6507		11.0529	10.8403	MG/KG	278	278	45	17	75 - 125	20MS
Beryllium	9	0.9971		1.9937		1.7106		0.8842	0.8672	MG/KG	113	113	82	15	75 - 125	20MS
Boron	-	1.4131	B	223.9163		218.2606		221.0580	216.8059	MG/KG	101	101	100	3	84 - 115	20P
Cadmium	111	0.1054	B	1.4853		1.3247		1.1053	1.0840	MG/KG	125	125	112	11	75 - 125	20MS
Calcium	-	2555.5522		3561.3359		4197.3463		442.1160	433.6137	MG/KG	227	227	379	16	75 - 125	20P
Chromium	52	27.3202		39.6136		36.0767		11.0529	10.8403	MG/KG	111	111	81	9	75 - 125	20MS
Cobalt	59	7.1037		72.2417		57.9308		55.2645	54.2017	MG/KG	118	118	94	22	75 - 125	20MS
Copper	63	12.6662		28.3617		24.0005		11.0529	10.8403	MG/KG	142	142	105	17	75 - 125	20MS
Iron	-	23638.4146		25933.6404		27123.0021		110.5290	108.4034	MG/KG	2058	2058	3214	5	75 - 125	20P
Lead	208	8.7740		13.3652		9.9861		3.3159	3.2521	MG/KG	138	138	37	29	75 - 125	20MS
Lithium	-	25.5021		137.6948		142.1364		110.5290	108.4034	MG/KG	102	102	108	3	82 - 114	20P
Magnesium	-	4968.2020		5785.6975		6524.8405		221.0580	216.8059	MG/KG	370	370	718	12	75 - 125	20P
Manganese	-	230.8217		343.0356		284.9558		55.2645	54.2017	MG/KG	203	203	100	18	75 - 125	20P
Mercury	-	0.0078	U	0.1915		0.1829		0.1824	0.1810	MG/KG	105	105	101	5	65 - 135	20CV
Molybdenum	98	0.4551		12.8634		10.8208		11.0529	10.8403	MG/KG	112	112	96	17	75 - 125	20MS
Nickel	60	16.7599		32.8492		27.6429		11.0529	10.8403	MG/KG	146	146	100	17	75 - 125	20MS
Phosphorus	-	220.5186		351.6248		322.5848		110.5290	108.4034	MG/KG	119	119	94	9	75 - 125	20P
Potassium	-	2338.4770		3685.3958		3676.6998		1105.2899	1084.0343	MG/KG	122	122	123	0	75 - 125	20P
Selenium	78	0.1060	B	2.6682		2.1572		2.2106	2.1681	MG/KG	116	116	95	21	75 - 125	20MS
Silver	107	0.0722	B	13.5752		11.9179		11.0529	10.8403	MG/KG	122	122	109	13	75 - 125	20MS
Sodium	-	204.5807		1278.0965		1288.6924		1105.2899	1084.0343	MG/KG	97	97	100	1	75 - 125	20P
Strontium	-	23.0832		138.0209		139.5141		110.5290	108.4034	MG/KG	104	104	107	1	75 - 115	20P
Thallium	203	0.4006		0.8738		0.7593		0.4421	0.4336	MG/KG	107	107	83	14	75 - 125	20MS
Tin	-	2.6970	B	394.7819		388.9537		442.1160	433.6137	MG/KG	89	89	89	1	80 - 110	20P
Titanium	-	1228.3983		1517.3099		1514.1369		110.5290	108.4034	MG/KG	261	261	264	0	75 - 125	20P
Vanadium	51	56.2165		67.5995		56.9768		11.0529	10.8403	MG/KG	103	103	7	17	75 - 125	20MS
Zinc	66	72.9414		88.6443		76.7930		11.0529	10.8403	MG/KG	142	142	36	14	75 - 125	20MS
Zirconium	40	1.3321	B	109.3762		108.3189		110.5290	108.4034	MG/KG	98	98	99	1	75 - 125	20P

METHODS: U
 P = ICP Atomic Emission Spectrometer
 MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:
 U = Below MDL, B = Below LOQ
 FLAGS:
 N = Matrix Spike OOS, * = Duplicate OOS

* Post spike Sb=61
 As=66



QUALITY ASSURANCE SUMMARY

FORM 6

DUPLICATES

SDG No.: DE229

Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6384465BKG

Duplicate Lab Sample ID: 6384465DUP

% Solids for Duplicate: 88.7

% Solids for Sample: 88.7

Batch ID(s): P23608E, P23611A

Concentration Units: MG/KG

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			18852.5191		18427.4033		2		P
Antimony	121		0.0810	U	0.0802	U			MS
Arsenic	75		7.2219		5.4310		28	*	MS
Barium	137		132.8138		138.1493		4		MS
Beryllium	9		0.9971		0.8965		11		MS
Boron			1.4131	B	1.3659	B	3		P
Cadmium	111	0.1	0.1054	B	0.1380		27		MS
Calcium			2555.5522		2639.5510		3		P
Chromium	52		27.3202		28.3150		4		MS
Cobalt	59		7.1037		7.7639		9		MS
Copper	63		12.6662		13.5396		7		MS
Iron			23638.4146		21729.4500		8		P
Lead	208		8.7740		8.6983		1		MS
Lithium			25.5021		25.9203		2		P
Magnesium			4968.2020		4996.8747		1		P
Manganese			230.8217		236.9764		3		P
Mercury			0.0078	U	0.0080	U			CV
Molybdenum	98	0.1	0.4551		0.3952		14		MS
Nickel	60		16.7599		17.7760		6		MS
Phosphorus			220.5186		195.8189		12		P
Potassium			2338.4770		2269.8422		3		P
Selenium	78		0.1060	B	0.0753	B	34		MS
Silver	107		0.0722	B	0.0855	B	17		MS
Sodium		109.5	204.5807		202.6971		1		P
Strontium			23.0832		22.9935		0		P
Thallium	203	0.1	0.4006		0.3510		13		MS
Tin			2.6970	B	2.8597	B	6		P
Titanium			1228.3983		1185.8870		4		P
Vanadium	51		56.2165		51.1231		9		MS
Zinc	66		72.9414		74.4515		2		MS
Zirconium			1.3321	B	2.0044	B	40		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.

DE229 3535

<p>METHODS:</p> <p>P = ICP Atomic Emission Spectrometer MS = ICP Mass Spectrometry CV = Cold Vapor AF = Cold Vapor Atomic Fluorescence</p>	<p>CONCENTRATION QUALIFIERS:</p> <p>U= Below MDL B= Below LOQ</p> <p>FLAGS:</p> <p>* = Duplicate Out of Spec</p>
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SAMPLE DELIVERY GROUP

DE230

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-Aug-2011	TB-082311	6385541	TB	5030B	8015M	III
23-Aug-2011	TB-082311	6385541	TB	5030B	8260B	III
23-Aug-2011	TB-082311	6385541	TB	5030B	8260B SIM	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0	6385537	N	3050B	6010B	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0	6385537	N	3050B	6020	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0	6385537	N	3060A	7199	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0	6385537	N	3546	1625C	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0	6385537	N	3550B	8015B	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0	6385537	N	3550B	8015M	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0	6385537	N	3550B	8082	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0	6385537	N	3550B	8270C	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0	6385537	N	3550B	8270C SIM	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0	6385537	N	5035	8015M	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0	6385537	N	5035	8260B	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0	6385537	N	5035	8260B SIM	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0	6385537	N	8330	8330A	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0	6385537	N	Gen Prep	314.0	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0	6385537	N	METHOD	300.0	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0	6385537	N	METHOD	7471A	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0	6385537	N	METHOD	8015B	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0	6385537	N	METHOD	8015M	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0	6385537	N	METHOD	8315A	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0	6385537	N	METHOD	9012B	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0DUP	P385537D270032A	DUP	METHOD	300.0	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0DUP	P385537D270835A	DUP	METHOD	9012B	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0DUP	P385537D271835A	DUP	Gen Prep	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Aug-2011	SL-030-SA6-SB-4.0-5.0MSD	P385537M242345A	MSD	METHOD	8315A	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0MS	P385537R242335A	MS	METHOD	8315A	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0MS	P385537R270046A	MS	METHOD	300.0	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0MS	P385537R270836A	MS	METHOD	9012B	III
23-Aug-2011	SL-030-SA6-SB-4.0-5.0MS	P385537R271858A	MS	Gen Prep	314.0	III
23-Aug-2011	SL-030-SA6-SB-9.0-10.0	6385538	N	3050B	6010B	III
23-Aug-2011	SL-030-SA6-SB-9.0-10.0	6385538	N	3050B	6020	III
23-Aug-2011	SL-030-SA6-SB-9.0-10.0	6385538	N	3060A	7199	III
23-Aug-2011	SL-030-SA6-SB-9.0-10.0	6385538	N	3546	1625C	III
23-Aug-2011	SL-030-SA6-SB-9.0-10.0	6385538	N	3550B	8015B	III
23-Aug-2011	SL-030-SA6-SB-9.0-10.0	6385538	N	3550B	8015M	III
23-Aug-2011	SL-030-SA6-SB-9.0-10.0	6385538	N	3550B	8082	III
23-Aug-2011	SL-030-SA6-SB-9.0-10.0	6385538	N	3550B	8270C	III
23-Aug-2011	SL-030-SA6-SB-9.0-10.0	6385538	N	3550B	8270C SIM	III
23-Aug-2011	SL-030-SA6-SB-9.0-10.0	6385538	N	5035	8015M	III
23-Aug-2011	SL-030-SA6-SB-9.0-10.0	6385538	N	5035	8260B	III
23-Aug-2011	SL-030-SA6-SB-9.0-10.0	6385538	N	5035	8260B SIM	III
23-Aug-2011	SL-030-SA6-SB-9.0-10.0	6385538	N	8330	8330A	III
23-Aug-2011	SL-030-SA6-SB-9.0-10.0	6385538	N	Gen Prep	314.0	III
23-Aug-2011	SL-030-SA6-SB-9.0-10.0	6385538	N	METHOD	300.0	III
23-Aug-2011	SL-030-SA6-SB-9.0-10.0	6385538	N	METHOD	7471A	III
23-Aug-2011	SL-030-SA6-SB-9.0-10.0	6385538	N	METHOD	8015B	III
23-Aug-2011	SL-030-SA6-SB-9.0-10.0	6385538	N	METHOD	8015M	III
23-Aug-2011	SL-030-SA6-SB-9.0-10.0	6385538	N	METHOD	8315A	III
23-Aug-2011	SL-030-SA6-SB-9.0-10.0	6385538	N	METHOD	9012B	III
23-Aug-2011	SL-035-SA6-SB-2.5-3.5	6385539	N	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Aug-2011	SL-035-SA6-SB-2.5-3.5	6385539	N	3050B	6020	III
23-Aug-2011	SL-035-SA6-SB-2.5-3.5	6385539	N	3060A	7199	III
23-Aug-2011	SL-035-SA6-SB-2.5-3.5	6385539	N	3546	1625C	III
23-Aug-2011	SL-035-SA6-SB-2.5-3.5	6385539	N	3550B	8015B	III
23-Aug-2011	SL-035-SA6-SB-2.5-3.5	6385539	N	3550B	8015M	III
23-Aug-2011	SL-035-SA6-SB-2.5-3.5	6385539	N	3550B	8082	III
23-Aug-2011	SL-035-SA6-SB-2.5-3.5	6385539	N	3550B	8270C	III
23-Aug-2011	SL-035-SA6-SB-2.5-3.5	6385539	N	3550B	8270C SIM	III
23-Aug-2011	SL-035-SA6-SB-2.5-3.5	6385539	N	5035	8015M	III
23-Aug-2011	SL-035-SA6-SB-2.5-3.5	6385539	N	5035	8260B	III
23-Aug-2011	SL-035-SA6-SB-2.5-3.5	6385539	N	5035	8260B SIM	III
23-Aug-2011	SL-035-SA6-SB-2.5-3.5	6385539	N	8330	8330A	III
23-Aug-2011	SL-035-SA6-SB-2.5-3.5	6385539	N	Gen Prep	314.0	III
23-Aug-2011	SL-035-SA6-SB-2.5-3.5	6385539	N	METHOD	300.0	III
23-Aug-2011	SL-035-SA6-SB-2.5-3.5	6385539	N	METHOD	7471A	III
23-Aug-2011	SL-035-SA6-SB-2.5-3.5	6385539	N	METHOD	8015B	III
23-Aug-2011	SL-035-SA6-SB-2.5-3.5	6385539	N	METHOD	8015M	III
23-Aug-2011	SL-035-SA6-SB-2.5-3.5	6385539	N	METHOD	8315A	III
23-Aug-2011	SL-035-SA6-SB-2.5-3.5	6385539	N	METHOD	9012B	III
23-Aug-2011	EB-SA6-SB-082311	6385542	EB	3005A	6010B	III
23-Aug-2011	EB-SA6-SB-082311	6385542	EB	3020A	6020	III
23-Aug-2011	EB-SA6-SB-082311	6385542	EB	3510C	8015B	III
23-Aug-2011	EB-SA6-SB-082311	6385542	EB	3510C	8015M	III
23-Aug-2011	EB-SA6-SB-082311	6385542	EB	3510C	8082	III
23-Aug-2011	EB-SA6-SB-082311	6385542	EB	3510C	8270C	III
23-Aug-2011	EB-SA6-SB-082311	6385542	EB	3510C	8270C SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Aug-2011	EB-SA6-SB-082311	6385542	EB	3520C	1625C	III
23-Aug-2011	EB-SA6-SB-082311	6385542	EB	5030B	8015M	III
23-Aug-2011	EB-SA6-SB-082311	6385542	EB	5030B	8260B	III
23-Aug-2011	EB-SA6-SB-082311	6385542	EB	5030B	8260B SIM	III
23-Aug-2011	EB-SA6-SB-082311	6385542	EB	8330	8330A	III
23-Aug-2011	EB-SA6-SB-082311	6385542	EB	Gen Prep	300.0	III
23-Aug-2011	EB-SA6-SB-082311	6385542	EB	Gen Prep	314.0	III
23-Aug-2011	EB-SA6-SB-082311	6385542	EB	Gen Prep	7199	III
23-Aug-2011	EB-SA6-SB-082311	6385542	EB	Gen Prep	8015B	III
23-Aug-2011	EB-SA6-SB-082311	6385542	EB	Gen Prep	8015M	III
23-Aug-2011	EB-SA6-SB-082311	6385542	EB	METHOD	7470A	III
23-Aug-2011	EB-SA6-SB-082311	6385542	EB	METHOD	8315A	III
23-Aug-2011	EB-SA6-SB-082311	6385542	EB	METHOD	9012B	III
23-Aug-2011	SL-040-SA6-SB-4.0-5.0	6385540	N	3050B	6010B	III
23-Aug-2011	SL-040-SA6-SB-4.0-5.0	6385540	N	3050B	6020	III
23-Aug-2011	SL-040-SA6-SB-4.0-5.0	6385540	N	3060A	7199	III
23-Aug-2011	SL-040-SA6-SB-4.0-5.0	6385540	N	3550B	8015M	III
23-Aug-2011	SL-040-SA6-SB-4.0-5.0	6385540	N	3550B	8082	III
23-Aug-2011	SL-040-SA6-SB-4.0-5.0	6385540	N	3550B	8270C	III
23-Aug-2011	SL-040-SA6-SB-4.0-5.0	6385540	N	3550B	8270C SIM	III
23-Aug-2011	SL-040-SA6-SB-4.0-5.0	6385540	N	5035	8015M	III
23-Aug-2011	SL-040-SA6-SB-4.0-5.0	6385540	N	Gen Prep	314.0	III
23-Aug-2011	SL-040-SA6-SB-4.0-5.0	6385540	N	METHOD	300.0	III
23-Aug-2011	SL-040-SA6-SB-4.0-5.0	6385540	N	METHOD	6850	III
23-Aug-2011	SL-040-SA6-SB-4.0-5.0	6385540	N	METHOD	7471A	III
23-Aug-2011	SL-040-SA6-SB-4.0-5.0	6385540	N	METHOD	8015B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Aug-2011	SL-040-SA6-SB-4.0-5.0	6385540	N	METHOD	8015M	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE230

Laboratory: LL

EDD Filename: DE230_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-030-SA6-SB-4.0-5.0 Collected: 8/23/2011 8:14:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.9		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-030-SA6-SB-9.0-10.0 Collected: 8/23/2011 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	1.4		0.96	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-035-SA6-SB-2.5-3.5 Collected: 8/23/2011 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	2.0		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-040-SA6-SB-4.0-5.0 Collected: 8/23/2011 2:26:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Method Category:	METALS	
Method:	6010B	Matrix: AQ

Sample ID: EB-SA6-SB-082311 Collected: 8/23/2011 1:00:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0052	J	0.0022	MDL	0.0500	PQL	mg/L	J	Z
STRONTIUM	0.00022	J	0.00022	MDL	0.0050	PQL	mg/L	U	B

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-030-SA6-SB-4.0-5.0 Collected: 8/23/2011 8:14:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.769	J	0.393	MDL	5.45	PQL	mg/Kg	U	F
TIN	2.86	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	0.836	J	0.502	MDL	5.45	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

11/16/2011 2:30:45 PM

ADR version 1.4.0.111

Data Qualifier Summary

Lab Reporting Batch ID: DE230

Laboratory: LL

EDD Filename: DE230_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-030-SA6-SB-9.0-10.0 Collected: 8/23/2011 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
BORON	0.592	J	0.415	MDL	5.76	PQL	mg/Kg	U	F
TIN	2.99	J	0.369	MDL	11.5	PQL	mg/Kg	U	B

Sample ID: SL-035-SA6-SB-2.5-3.5 Collected: 8/23/2011 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
BORON	0.604	J	0.362	MDL	5.03	PQL	mg/Kg	U	F
SODIUM	71.7	J	5.98	MDL	101	PQL	mg/Kg	J	Z
TIN	2.44	J	0.322	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.10	J	0.462	MDL	5.03	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA6-SB-4.0-5.0 Collected: 8/23/2011 2:26:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.20	J	0.372	MDL	5.17	PQL	mg/Kg	U	F
TIN	2.56	J	0.331	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.87	J	0.476	MDL	5.17	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6020	Matrix: AQ

Sample ID: EB-SA6-SB-082311 Collected: 8/23/2011 1:00:00 Analysis Type: REA4 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.000093	J	0.000080	MDL	0.0010	PQL	mg/L	J	Z

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-030-SA6-SB-4.0-5.0 Collected: 8/23/2011 8:14:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0889	J	0.0632	MDL	0.436	PQL	mg/Kg	J	Z, 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: DE230

Laboratory: LL

EDD Filename: DE230_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-030-SA6-SB-4.0-5.0 Collected: 8/23/2011 8:14:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0807	U	0.0807	MDL	0.218	PQL	mg/Kg	R	Q
ARSENIC	3.79		0.0872	MDL	0.436	PQL	mg/Kg	J	Q, E, E
COBALT	5.13		0.0218	MDL	0.109	PQL	mg/Kg	J	E
COPPER	11.7		0.0872	MDL	0.436	PQL	mg/Kg	J	Q
LEAD	6.63		0.0111	MDL	0.218	PQL	mg/Kg	J	Q, Q, E
NICKEL	10.9		0.109	MDL	0.436	PQL	mg/Kg	J	Q

Sample ID: SL-030-SA6-SB-9.0-10.0 Collected: 8/23/2011 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
SELENIUM	0.107	J	0.0668	MDL	0.461	PQL	mg/Kg	J	Z, E

Sample ID: SL-030-SA6-SB-9.0-10.0 Collected: 8/23/2011 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	0.0852	U	0.0852	MDL	0.230	PQL	mg/Kg	R	Q
ARSENIC	6.15		0.0921	MDL	0.461	PQL	mg/Kg	J	Q, E, E
COBALT	6.36		0.0230	MDL	0.115	PQL	mg/Kg	J	E
COPPER	25.4		0.0921	MDL	0.461	PQL	mg/Kg	J	Q
LEAD	13.1		0.0117	MDL	0.230	PQL	mg/Kg	J	Q, Q, E
NICKEL	11.8		0.115	MDL	0.461	PQL	mg/Kg	J	Q
SILVER	0.106	J	0.0164	MDL	0.115	PQL	mg/Kg	J	Z

Sample ID: SL-035-SA6-SB-2.5-3.5 Collected: 8/23/2011 10:30:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.185	J	0.0583	MDL	0.402	PQL	mg/Kg	J	Z, E

Sample ID: SL-035-SA6-SB-2.5-3.5 Collected: 8/23/2011 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
ANTIMONY	0.0744	U	0.0744	MDL	0.201	PQL	mg/Kg	R	Q
ARSENIC	6.10		0.0804	MDL	0.402	PQL	mg/Kg	J	Q, E, E
COBALT	7.49		0.0201	MDL	0.101	PQL	mg/Kg	J	E
COPPER	11.2		0.0804	MDL	0.402	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: DE230

Laboratory: LL

EDD Filename: DE230_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-035-SA6-SB-2.5-3.5 Collected: 8/23/2011 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
LEAD	7.16		0.0103	MDL	0.201	PQL	mg/Kg	J	Q, Q, E
NICKEL	15.1		0.101	MDL	0.402	PQL	mg/Kg	J	Q
SILVER	0.0433	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA6-SB-4.0-5.0 Collected: 8/23/2011 2:26:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.155	J	0.0600	MDL	0.414	PQL	mg/Kg	J	Z, E

Sample ID: SL-040-SA6-SB-4.0-5.0 Collected: 8/23/2011 2:26:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0766	U	0.0766	MDL	0.207	PQL	mg/Kg	R	Q
ARSENIC	7.03		0.0828	MDL	0.414	PQL	mg/Kg	J	Q, E, E
COBALT	9.82		0.0207	MDL	0.103	PQL	mg/Kg	J	E
COPPER	10.4		0.0828	MDL	0.414	PQL	mg/Kg	J	Q
LEAD	9.06		0.0106	MDL	0.207	PQL	mg/Kg	J	Q, Q, E
NICKEL	17.0		0.103	MDL	0.414	PQL	mg/Kg	J	Q
SILVER	0.0791	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-030-SA6-SB-4.0-5.0 Collected: 8/23/2011 8:14:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.34	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA6-SB-4.0-5.0 Collected: 8/23/2011 2:26:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.44	J	0.21	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

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Data Qualifier Summary

Lab Reporting Batch ID: DE230

Laboratory: LL

EDD Filename: DE230_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 7471A **Matrix:** SO

Sample ID: SL-035-SA6-SB-2.5-3.5 Collected: 8/23/2011 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
MERCURY	0.0171	J	0.0070	MDL	0.0995	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA6-SB-4.0-5.0 Collected: 8/23/2011 2:26:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0082	J	0.0072	MDL	0.103	PQL	mg/Kg	J	Z

Method Category: SVOA
Method: 1625C **Matrix:** AQ

Sample ID: EB-SA6-SB-082311 Collected: 8/23/2011 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	3.27		0.519	MDL	1.04	PQL	ng/L	J	S

Method Category: SVOA
Method: 8015M **Matrix:** SO

Sample ID: SL-030-SA6-SB-9.0-10.0 Collected: 8/23/2011 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
EFH (C15-C20)	1.1	J	0.47	MDL	1.4	PQL	mg/Kg	J	Z

Method Category: SVOA
Method: 8082 **Matrix:** SO

Sample ID: SL-035-SA6-SB-2.5-3.5 Collected: 8/23/2011 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
AROCLOR 1260	1.2	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: DE230

Laboratory: LL

EDD Filename: DE230_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-030-SA6-SB-4.0-5.0 Collected: 8/23/2011 8:14:00 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	550	PQL	ug/Kg	UJ	L

Sample ID: SL-030-SA6-SB-9.0-10.0 Collected: 8/23/2011 8:40:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	200	U	200	MDL	590	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	100	J	20	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-035-SA6-SB-2.5-3.5 Collected: 8/23/2011 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	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-040-SA6-SB-4.0-5.0 Collected: 8/23/2011 2:26:00 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

Method Category:	SVOA	
Method:	8270C SIM	Matrix: AQ

Sample ID: EB-SA6-SB-082311 Collected: 8/23/2011 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	0.12	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Butylbenzylphthalate	0.14	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Diethylphthalate	0.28	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.85	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-octylphthalate	0.17	J	0.051	MDL	1.0	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: DE230

Laboratory: LL

EDD Filename: DE230_v1

eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-030-SA6-SB-4.0-5.0 Collected: 8/23/2011 8:14:00 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	0.87	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-030-SA6-SB-9.0-10.0 Collected: 8/23/2011 8:40:00 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	5.4	J	3.9	MDL	9.8	PQL	ug/Kg	J	Z
CHRYSENE	3.2	J	2.0	MDL	9.8	PQL	ug/Kg	J	Z

Sample ID: SL-035-SA6-SB-2.5-3.5 Collected: 8/23/2011 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
BENZO(A)ANTHRACENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.95	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.5	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.2	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.1	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.1	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-040-SA6-SB-4.0-5.0 Collected: 8/23/2011 2:26:00 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	4.8	J	3.5	MDL	8.7	PQL	ug/Kg	J	Z
PYRENE	4.2	J	3.5	MDL	8.7	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8315A	Matrix: SO

Sample ID: SL-030-SA6-SB-9.0-10.0 Collected: 8/23/2011 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
FORMALDEHYDE	1200	J	710	MDL	1800	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE230

Laboratory: LL

EDD Filename: DE230_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8330A

Matrix: AQ

Sample ID: EB-SA6-SB-082311

Collected: 8/23/2011 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
4-AMINO-2,6-DINITROTOLUENE	0.59	J	0.30	MDL	0.60	PQL	ug/L	J	Z

Method Category: VOA

Method: 8260B

Matrix: AQ

Sample ID: EB-SA6-SB-082311

Collected: 8/23/2011 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
CHLOROFORM	1	J	0.8	MDL	5	PQL	ug/L	J	Z

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-030-SA6-SB-4.0-5.0

Collected: 8/23/2011 8:14:00

Analysis Type: RES

Dilution: 0.85

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.1	J	0.23	MDL	3.8	PQL	ug/Kg	U	B, F
TOLUENE	0.15	J	0.07	MDL	3.8	PQL	ug/Kg	J	Z

Sample ID: SL-030-SA6-SB-9.0-10.0

Collected: 8/23/2011 8:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 0.96

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,4-DICHLOROBENZENE	0.33	J	0.18	MDL	4.6	PQL	ug/Kg	J	Z
ACETONE	55		7.6	MDL	9.1	PQL	ug/Kg	U	F
METHYLENE CHLORIDE	1.3	J	0.27	MDL	4.6	PQL	ug/Kg	U	B, F
TOLUENE	0.21	J	0.09	MDL	4.6	PQL	ug/Kg	J	Z

Sample ID: SL-035-SA6-SB-2.5-3.5

Collected: 8/23/2011 10:30:00

Analysis Type: RES

Dilution: 1.02

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.99	J	0.25	MDL	4.2	PQL	ug/Kg	U	B, F
TOLUENE	0.15	J	0.08	MDL	4.2	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: DE230

Laboratory: LL

EDD Filename: DE230_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: DE230

Laboratory: LL

EDD Filename: DE230_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: DE230

Laboratory: LL

EDD Filename: DE230_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

DE230

Method Blank Outlier Report

Lab Reporting Batch ID: DE230

Laboratory: LL

EDD Filename: DE230_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23848AB220318	8/30/2011 3:18:00 AM	MANGANESE PHOSPHORUS STRONTIUM TIN	0.0012 mg/L 1.30 mg/L 0.00033 mg/L 0.0324 mg/L	EB-SA6-SB-082311

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-SA6-SB-082311(REA)	STRONTIUM	0.00022 mg/L	0.00022U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23608EB220949	8/31/2011 9:49:00 AM	CALCIUM IRON MANGANESE PHOSPHORUS STRONTIUM TIN	7.55 mg/Kg 4.64 mg/Kg 0.0441 mg/Kg 1.52 mg/Kg 0.0412 mg/Kg 1.84 mg/Kg	SL-030-SA6-SB-4.0-5.0 SL-030-SA6-SB-9.0-10.0 SL-035-SA6-SB-2.5-3.5 SL-040-SA6-SB-4.0-5.0

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-030-SA6-SB-4.0-5.0(RES)	TIN	2.86 mg/Kg	2.86U mg/Kg
SL-030-SA6-SB-9.0-10.0(RES)	TIN	2.99 mg/Kg	2.99U mg/Kg
SL-035-SA6-SB-2.5-3.5(RES)	TIN	2.44 mg/Kg	2.44U mg/Kg
SL-040-SA6-SB-4.0-5.0(RES)	TIN	2.56 mg/Kg	2.56U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23608EB220956A	8/30/2011 9:56:00 AM	VANADIUM	0.0917 mg/Kg	SL-030-SA6-SB-4.0-5.0 SL-030-SA6-SB-9.0-10.0 SL-035-SA6-SB-2.5-3.5 SL-040-SA6-SB-4.0-5.0

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB49B211347A	8/25/2011 1:47:00 PM	CHLOROFORM METHYLENE CHLORIDE	0.15 ug/Kg 0.62 ug/Kg	SL-030-SA6-SB-4.0-5.0 SL-030-SA6-SB-9.0-10.0 SL-035-SA6-SB-2.5-3.5

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

11/16/2011 2:16:54 PM

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Page 1 of 2

Method Blank Outlier Report

Lab Reporting Batch ID: DE230

Laboratory: LL

EDD Filename: DE230_v1

eQAPP Name: CDM_SSFL_110509

Method: 8260B
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-030-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.1 ug/Kg	3.8U ug/Kg
SL-030-SA6-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.3 ug/Kg	4.6U ug/Kg
SL-035-SA6-SB-2.5-3.5(RES)	METHYLENE CHLORIDE	0.99 ug/Kg	4.2U ug/Kg

Method: 8270C SIM
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWB23B261100	9/2/2011 11:00:00 AM	BENZO(G,H,I)PERYLENE DIBENZO(A,H)ANTHRACENE INDENO(1,2,3-CD)PYRENE	0.017 ug/L 0.015 ug/L 0.015 ug/L	EB-SA6-SB-082311

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE230

Laboratory: LL

EDD Filename: DE230_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA6-SB-082311(REA)	8/23/2011 1:00:00 PM	BORON STRONTIUM	0.0052 mg/L 0.00022 mg/L	SL-030-SA6-SB-4.0-5.0 SL-030-SA6-SB-9.0-10.0 SL-035-SA6-SB-2.5-3.5 SL-040-SA6-SB-4.0-5.0

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-030-SA6-SB-4.0-5.0(RES)	BORON	0.769 mg/Kg	0.769U mg/Kg
SL-030-SA6-SB-9.0-10.0(RES)	BORON	0.592 mg/Kg	0.592U mg/Kg
SL-035-SA6-SB-2.5-3.5(RES)	BORON	0.604 mg/Kg	0.604U mg/Kg
SL-040-SA6-SB-4.0-5.0(RES)	BORON	1.20 mg/Kg	1.20U mg/Kg

Method: 8260B
Matrix: SO

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA6-SB-082311(RES)	8/23/2011 1:00:00 PM	ACETONE CHLOROFORM METHYLENE CHLORIDE	34 ug/L 1 ug/L 14 ug/L	SL-030-SA6-SB-4.0-5.0 SL-030-SA6-SB-9.0-10.0 SL-035-SA6-SB-2.5-3.5 SL-040-SA6-SB-4.0-5.0

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-030-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.1 ug/Kg	3.8U ug/Kg
SL-030-SA6-SB-9.0-10.0(RES)	ACETONE	55 ug/Kg	55U ug/Kg
SL-030-SA6-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.3 ug/Kg	4.6U ug/Kg
SL-035-SA6-SB-2.5-3.5(RES)	METHYLENE CHLORIDE	0.99 ug/Kg	4.2U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE230

Laboratory: LL

EDD Filename: DE230_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-030-SA6-SB-4.0-5.0MS (SL-030-SA6-SB-4.0-5.0 SL-030-SA6-SB-9.0-10.0 SL-035-SA6-SB-2.5-3.5 SL-040-SA6-SB-4.0-5.0)	FLUORIDE	74	-	80.00-120.00	-	FLUORIDE	J (all detects) UJ (all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE230

Laboratory: LL

EDD Filename: DE230_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12421AY321305A (EB-SA6-SB-082311)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	- - -	140 137 135	78.00-126.00 80.00-124.00 80.00-120.00	- - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J (all detects)

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12424AQ241002A P12424AY241044A (EB-SA6-SB-082311)	Nitroglycerin PETN	129 138	129 138	80.00-120.00 80.00-120.00	- -	Nitroglycerin PETN	J(all detects)

Method: 7470A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23813EQ220812 P23813EY220814 (EB-SA6-SB-082311)	MERCURY	85	82	90.00-115.00	-	MERCURY	No Qual, SRM within QC Limits

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8WBLCSY261930 (EB-SA6-SB-082311)	BENZO(K)FLUORANTHENE	-	135	59.00-130.00	-	BENZO(K)FLUORANTHENE	J(all detects)

Method: 8260B
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSY85Q211115A (EB-SA6-SB-082311 TB -082311)	BROMOCHLOROMETHANE	121	-	80.00-120.00	-	BROMOCHLOROMETHANE	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE230

Laboratory: LL

EDD Filename: DE230_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
P23608EQ220953 (SL-030-SA6-SB-4.0-5.0 SL-030-SA6-SB-9.0-10.0 SL-035-SA6-SB-2.5-3.5 SL-040-SA6-SB-4.0-5.0)	ALUMINUM MAGNESIUM TITANIUM	146 121 175	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM MAGNESIUM TITANIUM	No Qual, SRM within QC Limits

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23608EQ220959A (SL-030-SA6-SB-4.0-5.0 SL-030-SA6-SB-9.0-10.0 SL-035-SA6-SB-2.5-3.5 SL-040-SA6-SB-4.0-5.0)	ANTIMONY	56	-	80.00-120.00	-	ANTIMONY	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
P4LALCSQ261340 (SL-030-SA6-SB-4.0-5.0 SL-030-SA6-SB-9.0-10.0 SL-035-SA6-SB-2.5-3.5 SL-040-SA6-SB-4.0-5.0)	4,6-DINITRO-2-METHYLPHENOL	44	-	46.00-120.00	-	4,6-DINITRO-2-METHYLPHEN	J(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE230

Laboratory: LL

EDD Filename: DE230_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C

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-SA6-SB-082311	N-Nitrosodimethylamine-d6	178	50.00-150.00	All Target Analytes	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE230

Laboratory: LL

EDD Filename: DE230_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-082311	BORON	J	0.0052	0.0500	PQL	mg/L	J (all detects)
	STRONTIUM	J	0.00022	0.0050	PQL	mg/L	

Method: 6020
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-082311	LEAD	J	0.000093	0.0010	PQL	mg/L	J (all detects)

Method: 8260B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-082311	CHLOROFORM	J	1	5	PQL	ug/L	J (all detects)

Method: 8270C SIM
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-082311	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.12	1.0	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.14	1.0	PQL	ug/L	
	Diethylphthalate	J	0.28	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.85	1.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.17	1.0	PQL	ug/L	

Method: 8330A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-082311	4-AMINO-2,6-DINITROTOLUENE	J	0.59	0.60	PQL	ug/L	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-030-SA6-SB-4.0-5.0	BORON	J	0.769	5.45	PQL	mg/Kg	J (all detects)
	TIN	J	2.86	10.9	PQL	mg/Kg	
	Zirconium	J	0.836	5.45	PQL	mg/Kg	
SL-030-SA6-SB-9.0-10.0	BORON	J	0.592	5.76	PQL	mg/Kg	J (all detects)
	TIN	J	2.99	11.5	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE230

Laboratory: LL

EDD Filename: DE230_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-035-SA6-SB-2.5-3.5	BORON	J	0.604	5.03	PQL	mg/Kg	J (all detects)
	SODIUM	J	71.7	101	PQL	mg/Kg	
	TIN	J	2.44	10.1	PQL	mg/Kg	
	Zirconium	J	1.10	5.03	PQL	mg/Kg	
SL-040-SA6-SB-4.0-5.0	BORON	J	1.20	5.17	PQL	mg/Kg	J (all detects)
	TIN	J	2.56	10.3	PQL	mg/Kg	
	Zirconium	J	1.87	5.17	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-030-SA6-SB-4.0-5.0	SELENIUM	J	0.0889	0.436	PQL	mg/Kg	J (all detects)
SL-030-SA6-SB-9.0-10.0	SELENIUM	J	0.107	0.461	PQL	mg/Kg	J (all detects)
	SILVER	J	0.106	0.115	PQL	mg/Kg	
SL-035-SA6-SB-2.5-3.5	SELENIUM	J	0.185	0.402	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0433	0.101	PQL	mg/Kg	
SL-040-SA6-SB-4.0-5.0	SELENIUM	J	0.155	0.414	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0791	0.103	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-030-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.34	1.1	PQL	mg/Kg	J (all detects)
SL-040-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.44	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-035-SA6-SB-2.5-3.5	MERCURY	J	0.0171	0.0995	PQL	mg/Kg	J (all detects)
SL-040-SA6-SB-4.0-5.0	MERCURY	J	0.0082	0.103	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-030-SA6-SB-9.0-10.0	EFH (C15-C20)	J	1.1	1.4	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE230

Laboratory: LL

EDD Filename: DE230_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-035-SA6-SB-2.5-3.5	AROCLOR 1260	J	1.2	1.8	PQL	ug/Kg	J (all detects)

Method: 8260B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-030-SA6-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.1	3.8	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.15	3.8	PQL	ug/Kg	
SL-030-SA6-SB-9.0-10.0	1,4-DICHLOROBENZENE	J	0.33	4.6	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	1.3	4.6	PQL	ug/Kg	
	TOLUENE	J	0.21	4.6	PQL	ug/Kg	
SL-035-SA6-SB-2.5-3.5	METHYLENE CHLORIDE	J	0.99	4.2	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.15	4.2	PQL	ug/Kg	

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-030-SA6-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	100	390	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-030-SA6-SB-4.0-5.0	ANTHRACENE	J	0.87	1.8	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	1.1	1.8	PQL	ug/Kg	
SL-030-SA6-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	5.4	9.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	3.2	9.8	PQL	ug/Kg	
SL-035-SA6-SB-2.5-3.5	BENZO(A)ANTHRACENE	J	1.3	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.3	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.95	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.5	1.7	PQL	ug/Kg	
	CHRYSENE	J	1.2	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	1.1	1.7	PQL	ug/Kg	
	PYRENE	J	1.1	1.7	PQL	ug/Kg	
SL-040-SA6-SB-4.0-5.0	BENZO(G,H,I)PERYLENE	J	4.8	8.7	PQL	ug/Kg	J (all detects)
	PYRENE	J	4.2	8.7	PQL	ug/Kg	

Method: 8315A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-030-SA6-SB-9.0-10.0	FORMALDEHYDE	J	1200	1800	PQL	ug/Kg	J (all detects)

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	No find by 2CB/1CB
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	3 see 02227
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	N A	SEM
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	EB=5

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	SL-030-SA6-SB-4.0-5.0	11	MB	21	31
2	SL-030-SA6-SB-9.0-10.0	12		22	32
3	SL-035-SA6-SB-2.5-3.5	13		23	33
4	SL-040-SA6-SB-4.0-5.0	14		24	34
5	EB-SA6-SB-082311	15		25	35
6		16		26	36
7		17		27	37
8		18		28	38
9		19		29	39
10		20		30	40

Notes: _____

VALIDATION FINDINGS WORKSHEET
Field Blanks

METHOD: Trace Metals (EPA SW846 6010B/6020/7000)

N/A Were field blanks identified in this SDG?
 N/A Were target analytes detected in the field blanks?

Blank units: ug/L **Associated sample units:** mg/kg

Sampling date: 8/23/11 **Soil factor applied:** 100x

Field blank type: (circle one) Field Blank / Rinsate / Other:

Associated Samples: All Soil

Analyte	Blank ID	Sample Identification				
		1	2	3	4	
	5					
B	5.2	0.77	0.59	0.60	1.2	
Pb	0.093					
Sr	0.22					

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".

SAMPLE DELIVERY GROUP

DE231

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
24-Aug-2011	TB-082411	6387020	TB	5030B	8015M	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0	6387017	N	3050B	6010B	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0	6387017	N	3050B	6020	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0	6387017	N	3060A	7199	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0	6387017	N	3546	1625C	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0	6387017	N	3550B	8015B	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0	6387017	N	3550B	8015M	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0	6387017	N	3550B	8082	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0	6387017	N	3550B	8270C	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0	6387017	N	3550B	8270C SIM	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0	6387017	N	5035	8015M	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0	6387017	N	5035	8260B	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0	6387017	N	5035	8260B SIM	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0	6387017	N	8330	8330A	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0	6387017	N	Gen Prep	314.0	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0	6387017	N	METHOD	300.0	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0	6387017	N	METHOD	6850	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0	6387017	N	METHOD	7471A	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0	6387017	N	METHOD	8015B	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0	6387017	N	METHOD	8015M	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0	6387017	N	METHOD	8315A	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0	6387017	N	METHOD	9012B	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0DUP	P387017D221709	DUP	3050B	6010B	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0MSD	P387017M221717	MSD	3050B	6010B	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0MSD	P387017M321025A	MSD	3550B	8015M	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0MS	P387017R221713	MS	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
24-Aug-2011	SL-066-SA6-SB-2.0-3.0MS	P387017R321001A	MS	3550B	8015M	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0	6387018	N	3050B	6010B	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0	6387018	N	3050B	6020	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0	6387018	N	3060A	7199	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0	6387018	N	3546	1625C	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0	6387018	N	3550B	8015B	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0	6387018	N	3550B	8015M	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0	6387018	N	3550B	8082	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0	6387018	N	3550B	8270C	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0	6387018	N	3550B	8270C SIM	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0	6387018	N	5035	8015M	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0	6387018	N	8330	8330A	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0	6387018	N	Gen Prep	314.0	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0	6387018	N	METHOD	300.0	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0	6387018	N	METHOD	7471A	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0	6387018	N	METHOD	8015B	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0	6387018	N	METHOD	8015M	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0	6387018	N	METHOD	8315A	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0	6387018	N	METHOD	9012B	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0DUP	P387018D221348A	DUP	3050B	6020	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0DUP	P387018D221348B	DUP	3050B	6020	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0DUP	P387018D221348C	DUP	3050B	6020	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0DUP	P387018D221348D	DUP	3050B	6020	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0MSD	P387018M221354A	MSD	3050B	6020	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0MSD	P387018M221354B	MSD	3050B	6020	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0MSD	P387018M221354C	MSD	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
24-Aug-2011	SL-197-SA6-SB-4.0-5.0MSD	P387018M221354D	MSD	3050B	6020	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0MS	P387018R221351A	MS	3050B	6020	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0MS	P387018R221351B	MS	3050B	6020	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0MS	P387018R221351C	MS	3050B	6020	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0MS	P387018R221351D	MS	3050B	6020	III
24-Aug-2011	SL-208-SA6-SB-4.0-5.0	6387019	N	3050B	6010B	III
24-Aug-2011	SL-208-SA6-SB-4.0-5.0	6387019	N	3050B	6020	III
24-Aug-2011	SL-208-SA6-SB-4.0-5.0	6387019	N	3060A	7199	III
24-Aug-2011	SL-208-SA6-SB-4.0-5.0	6387019	N	3546	1625C	III
24-Aug-2011	SL-208-SA6-SB-4.0-5.0	6387019	N	3550B	8015B	III
24-Aug-2011	SL-208-SA6-SB-4.0-5.0	6387019	N	3550B	8015M	III
24-Aug-2011	SL-208-SA6-SB-4.0-5.0	6387019	N	3550B	8082	III
24-Aug-2011	SL-208-SA6-SB-4.0-5.0	6387019	N	3550B	8270C	III
24-Aug-2011	SL-208-SA6-SB-4.0-5.0	6387019	N	3550B	8270C SIM	III
24-Aug-2011	SL-208-SA6-SB-4.0-5.0	6387019	N	5035	8015M	III
24-Aug-2011	SL-208-SA6-SB-4.0-5.0	6387019	N	8330	8330A	III
24-Aug-2011	SL-208-SA6-SB-4.0-5.0	6387019	N	Gen Prep	314.0	III
24-Aug-2011	SL-208-SA6-SB-4.0-5.0	6387019	N	METHOD	300.0	III
24-Aug-2011	SL-208-SA6-SB-4.0-5.0	6387019	N	METHOD	7471A	III
24-Aug-2011	SL-208-SA6-SB-4.0-5.0	6387019	N	METHOD	8015B	III
24-Aug-2011	SL-208-SA6-SB-4.0-5.0	6387019	N	METHOD	8015M	III
24-Aug-2011	SL-208-SA6-SB-4.0-5.0	6387019	N	METHOD	8315A	III
24-Aug-2011	SL-208-SA6-SB-4.0-5.0	6387019	N	METHOD	9012B	III
24-Aug-2011	SL-208-SA6-SB-4.0-5.0DUP	P387019D221946	DUP	METHOD	7471A	III
24-Aug-2011	SL-208-SA6-SB-4.0-5.0MSD	P387019M221949	MSD	METHOD	7471A	III
24-Aug-2011	SL-208-SA6-SB-4.0-5.0MS	P387019R221948	MS	METHOD	7471A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
24-Aug-2011	EB-SA6-SB-082411	6387021	EB	3005A	6010B	III
24-Aug-2011	EB-SA6-SB-082411	6387021	EB	3020A	6020	III
24-Aug-2011	EB-SA6-SB-082411	6387021	EB	3510C	8015B	III
24-Aug-2011	EB-SA6-SB-082411	6387021	EB	3510C	8015M	III
24-Aug-2011	EB-SA6-SB-082411	6387021	EB	3510C	8082	III
24-Aug-2011	EB-SA6-SB-082411	6387021	EB	3510C	8270C	III
24-Aug-2011	EB-SA6-SB-082411	6387021	EB	3510C	8270C SIM	III
24-Aug-2011	EB-SA6-SB-082411	6387021	EB	3520C	1625C	III
24-Aug-2011	EB-SA6-SB-082411	6387021	EB	5030B	8015M	III
24-Aug-2011	EB-SA6-SB-082411	6387021	EB	5030B	8260B	III
24-Aug-2011	EB-SA6-SB-082411	6387021	EB	5030B	8260B SIM	III
24-Aug-2011	EB-SA6-SB-082411	6387021	EB	8330	8330A	III
24-Aug-2011	EB-SA6-SB-082411	6387021	EB	Gen Prep	300.0	III
24-Aug-2011	EB-SA6-SB-082411	6387021	EB	Gen Prep	314.0	III
24-Aug-2011	EB-SA6-SB-082411	6387021	EB	Gen Prep	7199	III
24-Aug-2011	EB-SA6-SB-082411	6387021	EB	Gen Prep	8015B	III
24-Aug-2011	EB-SA6-SB-082411	6387021	EB	Gen Prep	8015M	III
24-Aug-2011	EB-SA6-SB-082411	6387021	EB	METHOD	7470A	III
24-Aug-2011	EB-SA6-SB-082411	6387021	EB	METHOD	8315A	III
24-Aug-2011	EB-SA6-SB-082411	6387021	EB	METHOD	9012B	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE231

Laboratory: LL

EDD Filename: DE231_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: AQ

Sample ID: EB-SA6-SB-082411 Collected: 8/24/2011 1:00:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0041	J	0.0022	MDL	0.0500	PQL	mg/L	J	Z

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-066-SA6-SB-2.0-3.0 Collected: 8/24/2011 10:30:00 Analysis Type: REA3 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.82	J	0.466	MDL	5.06	PQL	mg/Kg	J	Z

Sample ID: SL-066-SA6-SB-2.0-3.0 Collected: 8/24/2011 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
POTASSIUM	1960		11.7	MDL	51.6	PQL	mg/Kg	J	Q
SODIUM	83.4	J	6.14	MDL	103	PQL	mg/Kg	J	Z
TIN	2.36	J	0.330	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-197-SA6-SB-4.0-5.0 Collected: 8/24/2011 11:06:00 Analysis Type: REA3 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.81	J	0.498	MDL	5.42	PQL	mg/Kg	J	Z

Sample ID: SL-197-SA6-SB-4.0-5.0 Collected: 8/24/2011 11:06:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2950		12.1	MDL	53.6	PQL	mg/Kg	J	Q
SODIUM	97.3	J	6.38	MDL	107	PQL	mg/Kg	J	Z
TIN	2.24	J	0.343	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-208-SA6-SB-4.0-5.0 Collected: 8/24/2011 12:06:00 Analysis Type: REA3 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.16	J	0.490	MDL	5.33	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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Method Blank Outlier Report

Lab Reporting Batch ID: DE231

Laboratory: LL

EDD Filename: DE231_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B				
Matrix: AQ				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23848AB220318	8/30/2011 3:18:00 AM	MANGANESE PHOSPHORUS STRONTIUM TIN	0.0012 mg/L 1.30 mg/L 0.00033 mg/L 0.0324 mg/L	EB-SA6-SB-082411

Method: 6010B				
Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23708JB222314	8/26/2011 11:14:00 PM	CALCIUM IRON MAGNESIUM STRONTIUM TIN	6.12 mg/Kg 4.97 mg/Kg 1.43 mg/Kg 0.0314 mg/Kg 1.57 mg/Kg	SL-066-SA6-SB-2.0-3.0 SL-197-SA6-SB-4.0-5.0 SL-208-SA6-SB-4.0-5.0
P24308BB221257	9/1/2011 12:57:00 PM	PHOSPHORUS	1.33 mg/Kg	SL-066-SA6-SB-2.0-3.0 SL-197-SA6-SB-4.0-5.0 SL-208-SA6-SB-4.0-5.0

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-066-SA6-SB-2.0-3.0(RES)	TIN	2.36 mg/Kg	2.36U mg/Kg
SL-197-SA6-SB-4.0-5.0(RES)	TIN	2.24 mg/Kg	2.24U mg/Kg
SL-208-SA6-SB-4.0-5.0(RES)	TIN	2.34 mg/Kg	2.34U mg/Kg

Method: 6020				
Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23726AB221336A	8/30/2011 1:36:00 PM	VANADIUM	0.0753 mg/Kg	SL-066-SA6-SB-2.0-3.0 SL-197-SA6-SB-4.0-5.0 SL-208-SA6-SB-4.0-5.0

Method: 8260B				
Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB49B211347A	8/25/2011 1:47:00 PM	CHLOROFORM METHYLENE CHLORIDE	0.15 ug/Kg 0.62 ug/Kg	SL-066-SA6-SB-2.0-3.0

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-066-SA6-SB-2.0-3.0(RES)	METHYLENE CHLORIDE	0.78 ug/Kg	4.0U ug/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: DE231

Laboratory: LL

EDD Filename: DE231_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWB23B261100	9/2/2011 11:00:00 AM	BENZO(G,H,I)PERYLENE DIBENZO(A,H)ANTHRACENE INDENO(1,2,3-CD)PYRENE	0.017 ug/L 0.015 ug/L 0.015 ug/L	EB-SA6-SB-082411

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE231

Laboratory: LL

EDD Filename: DE231_v1

eQAPP Name: CDM_SSFL_110509

Method: 8260B
Matrix: SO

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA6-SB-082411(RES)	8/24/2011 1:00:00 PM	ACETONE CHLOROFORM METHYLENE CHLORIDE	36 ug/L 1 ug/L 13 ug/L	SL-066-SA6-SB-2.0-3.0 SL-197-SA6-SB-4.0-5.0 SL-208-SA6-SB-4.0-5.0

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-066-SA6-SB-2.0-3.0(RES)	METHYLENE CHLORIDE	0.78 ug/Kg	4.0U ug/Kg

Data Qualifier Summary

Lab Reporting Batch ID: DE231

Laboratory: LL

EDD Filename: DE231_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-208-SA6-SB-4.0-5.0

Collected: 8/24/2011 12:06:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2760		12.2	MDL	53.8	PQL	mg/Kg	J	Q
SODIUM	107	J	6.40	MDL	108	PQL	mg/Kg	J	Z
TIN	2.34	J	0.344	MDL	10.8	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-066-SA6-SB-2.0-3.0

Collected: 8/24/2011 10:30:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.133	J	0.0599	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-066-SA6-SB-2.0-3.0

Collected: 8/24/2011 10:30:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.869		0.0516	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-066-SA6-SB-2.0-3.0

Collected: 8/24/2011 10:30:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	106		0.109	MDL	0.413	PQL	mg/Kg	J	A

Sample ID: SL-066-SA6-SB-2.0-3.0

Collected: 8/24/2011 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
ANTIMONY	0.0764	U	0.0764	MDL	0.206	PQL	mg/Kg	UJ	Q, E
ARSENIC	5.30		0.0826	MDL	0.413	PQL	mg/Kg	J	Q, Q, E
BERYLLIUM	0.830		0.0165	MDL	0.103	PQL	mg/Kg	J	Q, E
CADMIUM	0.0831	J	0.0454	MDL	0.103	PQL	mg/Kg	J	Z, Q
CHROMIUM	23.7		0.124	MDL	0.413	PQL	mg/Kg	J	Q
COBALT	7.45		0.0206	MDL	0.103	PQL	mg/Kg	J	Q, E, A
COPPER	9.60		0.0826	MDL	0.413	PQL	mg/Kg	J	Q, E, A
LEAD	6.20		0.0105	MDL	0.206	PQL	mg/Kg	J	Q, Q, E, A
NICKEL	15.7		0.103	MDL	0.413	PQL	mg/Kg	J	Q, Q, E, A
SILVER	0.0488	J	0.0147	MDL	0.103	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: DE231

Laboratory: LL

EDD Filename: DE231_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-066-SA6-SB-2.0-3.0 Collected: 8/24/2011 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
THALLIUM	0.284		0.0310	MDL	0.103	PQL	mg/Kg	J	Q, E
VANADIUM	48.0		0.0227	MDL	0.103	PQL	mg/Kg	J	E
ZINC	60.1		0.578	MDL	3.10	PQL	mg/Kg	J	E, A

Sample ID: SL-197-SA6-SB-4.0-5.0 Collected: 8/24/2011 11:06:00 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	0.0635	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: SL-197-SA6-SB-4.0-5.0 Collected: 8/24/2011 11:06:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.756		0.0547	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-197-SA6-SB-4.0-5.0 Collected: 8/24/2011 11:06:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	159		0.116	MDL	0.438	PQL	mg/Kg	J	A

Sample ID: SL-197-SA6-SB-4.0-5.0 Collected: 8/24/2011 11:06:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.123	J	0.0810	MDL	0.219	PQL	mg/Kg	J	Z, Q, E
ARSENIC	5.14		0.0875	MDL	0.438	PQL	mg/Kg	J	Q, Q, E
BERYLLIUM	0.933		0.0175	MDL	0.109	PQL	mg/Kg	J	Q, E
CADMIUM	0.225		0.0481	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	23.2		0.131	MDL	0.438	PQL	mg/Kg	J	Q
COBALT	7.61		0.0219	MDL	0.109	PQL	mg/Kg	J	Q, E, A
COPPER	13.7		0.0875	MDL	0.438	PQL	mg/Kg	J	Q, E, A
LEAD	6.85		0.0112	MDL	0.219	PQL	mg/Kg	J	Q, Q, E, A
NICKEL	18.2		0.109	MDL	0.438	PQL	mg/Kg	J	Q, Q, E, A
SILVER	0.0507	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.403		0.0328	MDL	0.109	PQL	mg/Kg	J	Q, E
VANADIUM	43.8		0.0241	MDL	0.109	PQL	mg/Kg	J	E
ZINC	83.1		0.613	MDL	3.28	PQL	mg/Kg	J	E, 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: DE231

Laboratory: LL

EDD Filename: DE231_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-208-SA6-SB-4.0-5.0

Collected: 8/24/2011 12:06:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.154	J	0.0612	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-208-SA6-SB-4.0-5.0

Collected: 8/24/2011 12:06:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.02		0.0528	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-208-SA6-SB-4.0-5.0

Collected: 8/24/2011 12:06:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIIUM	173		0.112	MDL	0.422	PQL	mg/Kg	J	A

Sample ID: SL-208-SA6-SB-4.0-5.0

Collected: 8/24/2011 12:06:00

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, E
ARSENIC	5.91		0.0844	MDL	0.422	PQL	mg/Kg	J	Q, Q, E
BERYLLIUM	0.977		0.0169	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.231		0.0464	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	23.7		0.127	MDL	0.422	PQL	mg/Kg	J	Q
COBALT	9.03		0.0211	MDL	0.106	PQL	mg/Kg	J	Q, E, A
COPPER	13.6		0.0844	MDL	0.422	PQL	mg/Kg	J	Q, E, A
LEAD	7.90		0.0108	MDL	0.211	PQL	mg/Kg	J	Q, Q, E, A
NICKEL	20.2		0.106	MDL	0.422	PQL	mg/Kg	J	Q, Q, E, A
SILVER	0.0469	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.440		0.0317	MDL	0.106	PQL	mg/Kg	J	Q, E
VANADIUM	47.7		0.0232	MDL	0.106	PQL	mg/Kg	J	E
ZINC	87.6		0.591	MDL	3.17	PQL	mg/Kg	J	E, 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: DE231

Laboratory: LL

EDD Filename: DE231_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-066-SA6-SB-2.0-3.0 Collected: 8/24/2011 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	0.31	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-197-SA6-SB-4.0-5.0 Collected: 8/24/2011 11:06:00 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	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-208-SA6-SB-4.0-5.0 Collected: 8/24/2011 12:06:00 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	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-066-SA6-SB-2.0-3.0 Collected: 8/24/2011 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
MERCURY	0.0092	J	0.0068	MDL	0.0973	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	1625C	Matrix: AQ

Sample ID: EB-SA6-SB-082411 Collected: 8/24/2011 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	3.17		0.508	MDL	1.02	PQL	ng/L	J	S

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-066-SA6-SB-2.0-3.0 Collected: 8/24/2011 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
EFH (C15-C20)	0.51	J	0.41	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: DE231

Laboratory: LL

EDD Filename: DE231_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-197-SA6-SB-4.0-5.0 Collected: 8/24/2011 11:06:00 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	0.72	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-208-SA6-SB-4.0-5.0 Collected: 8/24/2011 12:06:00 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 1248	1.6	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	2.2	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8270C SIM	Matrix: AQ

Sample ID: EB-SA6-SB-082411 Collected: 8/24/2011 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	0.098	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Butylbenzylphthalate	0.14	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Diethylphthalate	0.33	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Di-n-butylphthalate	0.85	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Di-n-octylphthalate	0.24	J	0.053	MDL	1.1	PQL	ug/L	J	Z
NAPHTHALENE	0.042	J	0.032	MDL	0.053	PQL	ug/L	J	Z

Method Category:	SVOA	
Method:	8315A	Matrix: SO

Sample ID: SL-197-SA6-SB-4.0-5.0 Collected: 8/24/2011 11:06:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	660	U	660	MDL	1600	PQL	ug/Kg	UJ	S

* 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: DE231

Laboratory: LL

EDD Filename: DE231_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8330A	Matrix: AQ

Sample ID: EB-SA6-SB-082411 Collected: 8/24/2011 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
4-AMINO-2,6-DINITROTOLUENE	0.34	J	0.30	MDL	0.60	PQL	ug/L	J	Z

Method Category:	VOA	
Method:	8260B	Matrix: AQ

Sample ID: EB-SA6-SB-082411 Collected: 8/24/2011 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
CHLOROFORM	1	J	0.8	MDL	5	PQL	ug/L	J	Z

Method Category:	VOA	
Method:	8260B	Matrix: SO

Sample ID: SL-066-SA6-SB-2.0-3.0 Collected: 8/24/2011 10:30:00 Analysis Type: RES Dilution: 0.97

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.78	J	0.24	MDL	4.0	PQL	ug/Kg	U	B, F
TOLUENE	0.17	J	0.08	MDL	4.0	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: DE231

Laboratory: LL

EDD Filename: DE231_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: DE231

Laboratory: LL

EDD Filename: DE231_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: DE231

Laboratory: LL

EDD Filename: DE231_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

DE231

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE231

Laboratory: LL

EDD Filename: DE231_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-197-SA6-SB-4.0-5.0MSD (SL-066-SA6-SB-2.0-3.0 SL-197-SA6-SB-4.0-5.0 SL-208-SA6-SB-4.0-5.0)	CADMIUM SILVER	- -	132 134	75.00-125.00 75.00-125.00	- -	CADMIUM SILVER	J (all detects)
SL-197-SA6-SB-4.0-5.0MS SL-197-SA6-SB-4.0-5.0MSD (SL-066-SA6-SB-2.0-3.0 SL-197-SA6-SB-4.0-5.0 SL-208-SA6-SB-4.0-5.0)	VANADIUM ZINC	27 -108	132 50	75.00-125.00 75.00-125.00	22 (20.00) 21 (20.00)	VANADIUM ZINC	J(all detects) UJ(all non-detects) No Qual, %R, >4x
SL-197-SA6-SB-4.0-5.0MS SL-197-SA6-SB-4.0-5.0MSD (SL-066-SA6-SB-2.0-3.0 SL-197-SA6-SB-4.0-5.0 SL-208-SA6-SB-4.0-5.0)	ANTIMONY ARSENIC BERYLLIUM CHROMIUM COBALT COPPER LEAD NICKEL THALLIUM	30 57 70 60 - - 59 71 -	47 129 - - 129 128 134 136 126	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	35 (20.00) 22 (20.00) 25 (20.00) - 22 (20.00) 23 (20.00) 25 (20.00) 24 (20.00) 26 (20.00)	ANTIMONY ARSENIC BERYLLIUM CHROMIUM COBALT COPPER LEAD NICKEL THALLIUM	J(all detects) UJ(all non-detects)
SL-197-SA6-SB-4.0-5.0MSD (SL-066-SA6-SB-2.0-3.0 SL-197-SA6-SB-4.0-5.0 SL-208-SA6-SB-4.0-5.0)	MOLYBDENUM	-	130	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-197-SA6-SB-4.0-5.0MS SL-197-SA6-SB-4.0-5.0MSD (SL-066-SA6-SB-2.0-3.0 SL-197-SA6-SB-4.0-5.0 SL-208-SA6-SB-4.0-5.0)	BARIUM	-281	-19	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-066-SA6-SB-2.0-3.0MS SL-066-SA6-SB-2.0-3.0MSD (SL-066-SA6-SB-2.0-3.0 SL-197-SA6-SB-4.0-5.0 SL-208-SA6-SB-4.0-5.0)	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE POTASSIUM TITANIUM	1360 147 1264 270 154 132 245	1219 132 827 214 - - 222	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	- - - - - - -	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE POTASSIUM TITANIUM	J(all detects) Al, Ca, Fe, Mg, Mn, Ti, No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE231

Laboratory: LL

EDD Filename: DE231_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-197-SA6-SB-4.0-5.0DUP (SL-066-SA6-SB-2.0-3.0 SL -197-SA6-SB-4.0-5.0 SL -208-SA6-SB-4.0-5.0)	ANTIMONY	38	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE231

Laboratory: LL

EDD Filename: DE231_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12421AY321305A (EB-SA6-SB-082411)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	- - -	140 137 135	78.00-126.00 80.00-124.00 80.00-120.00	- - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J (all detects)

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12424AQ241002A P12424AY241044A (EB-SA6-SB-082411)	Nitroglycerin PETN	129 138	129 138	80.00-120.00 80.00-120.00	- -	Nitroglycerin PETN	J(all detects)

Method: 7470A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23813EQ220812 P23813EY220814 (EB-SA6-SB-082411)	MERCURY	85	82	90.00-115.00	-	MERCURY	No Qual, SRM within QC Limits

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8WBLCSY261930 (EB-SA6-SB-082411)	BENZO(K)FLUORANTHENE	-	135	59.00-130.00	-	BENZO(K)FLUORANTHENE	J(all detects)

Method: 8260B
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSY85Q211115A (EB-SA6-SB-082411)	BROMOCHLOROMETHANE	121	-	80.00-120.00	-	BROMOCHLOROMETHANE	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE231

Laboratory: LL

EDD Filename: DE231_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23726AQ221339A (SL-066-SA6-SB-2.0-3.0 SL -197-SA6-SB-4.0-5.0 SL -208-SA6-SB-4.0-5.0)	ANTIMONY	60	-	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
P23708JQ222318 (SL-066-SA6-SB-2.0-3.0 SL -197-SA6-SB-4.0-5.0 SL -208-SA6-SB-4.0-5.0)	ALUMINUM TITANIUM	135 160	- -	80.00-120.00 80.00-120.00	- -	ALUMINUM TITANIUM	No Qual, SRM within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE231

Laboratory: LL

EDD Filename: DE231_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C
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-SA6-SB-082411	N-Nitrosodimethylamine-d6	187	50.00-150.00	All Target Analytes	J (all detects)

Method: 8315A
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-197-SA6-SB-4.0-5.0	Butyraldehyde	63	64.00-126.00	All Target Analytes	J(all detects) UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE231

Laboratory: LL

EDD Filename: DE231_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-082411	BORON	J	0.0041	0.0500	PQL	mg/L	J (all detects)

Method: 8260B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-082411	CHLOROFORM	J	1	5	PQL	ug/L	J (all detects)

Method: 8270C SIM
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-082411	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.098	1.1	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.14	1.1	PQL	ug/L	
	Diethylphthalate	J	0.33	1.1	PQL	ug/L	
	Di-n-butylphthalate	J	0.85	1.1	PQL	ug/L	
	Di-n-octylphthalate	J	0.24	1.1	PQL	ug/L	
	NAPHTHALENE	J	0.042	0.053	PQL	ug/L	

Method: 8330A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-082411	4-AMINO-2,6-DINITROTOLUENE	J	0.34	0.60	PQL	ug/L	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-066-SA6-SB-2.0-3.0	SODIUM	J	83.4	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.36	10.3	PQL	mg/Kg	
	Zirconium	J	1.82	5.06	PQL	mg/Kg	
SL-197-SA6-SB-4.0-5.0	SODIUM	J	97.3	107	PQL	mg/Kg	J (all detects)
	TIN	J	2.24	10.7	PQL	mg/Kg	
	Zirconium	J	1.81	5.42	PQL	mg/Kg	
SL-208-SA6-SB-4.0-5.0	SODIUM	J	107	108	PQL	mg/Kg	J (all detects)
	TIN	J	2.34	10.8	PQL	mg/Kg	
	Zirconium	J	2.16	5.33	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE231

Laboratory: LL

EDD Filename: DE231_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-066-SA6-SB-2.0-3.0	CADMIUM	J	0.0831	0.103	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.133	0.413	PQL	mg/Kg	
	SILVER	J	0.0488	0.103	PQL	mg/Kg	
SL-197-SA6-SB-4.0-5.0	ANTIMONY	J	0.123	0.219	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.150	0.438	PQL	mg/Kg	
	SILVER	J	0.0507	0.109	PQL	mg/Kg	
SL-208-SA6-SB-4.0-5.0	SELENIUM	J	0.154	0.422	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0469	0.106	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-066-SA6-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.31	1.1	PQL	mg/Kg	J (all detects)
SL-197-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.29	1.1	PQL	mg/Kg	J (all detects)
SL-208-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.36	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-066-SA6-SB-2.0-3.0	MERCURY	J	0.0092	0.0973	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-066-SA6-SB-2.0-3.0	EFH (C15-C20)	J	0.51	1.2	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-197-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.72	1.9	PQL	ug/Kg	J (all detects)
SL-208-SA6-SB-4.0-5.0	AROCLOR 1248	J	1.6	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	2.2	3.6	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE231

Laboratory: LL

EDD Filename: DE231_v1

eQAPP Name: CDM_SSFL_110509

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-066-SA6-SB-2.0-3.0	METHYLENE CHLORIDE	J	0.78	4.0	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.17	4.0	PQL	ug/Kg	

LDC #: 26533T4

VALIDATION COMPLETENESS WORKSHEET

Date: 11/2/11

SDG #: DE231

ADR

Page: (of)

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	SW	No find by 20B/20B
V.	ICP Interference Check Sample (ICS) Analysis	N	Report out
VI.	Matrix Spike Analysis	SW	Al, Ca, Fe, Mg, Mn, Ti, Ba, V, Zn > 4x (M. gal. R)
VII.	Duplicate Sample Analysis	NA	Sb 45x
VIII.	Laboratory Control Samples (LCS)	N	SKM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Ca, Cu, Pb, Ni, Zn TWT
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV.	Field Blanks	SW	EB24

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-066-SA6-SB-2.0-3.0	11	#1 MS (dup)	21	31
2	SL-197-SA6-SB-4.0-5.0	12	MS	22	32
3	SL-208-SA6-SB-4.0-5.0	13	dup	23	33
4	EB-SA6-SB-082411	14	(Li, P, Sr	24	34
5	#2 MS (dup/MS)	15	reprep. with 20B/20B	25	35
6	MS	16		26	36
7	dup	17		27	37
8	#3 MS (Hg)	18		28	38
9	MS	19		29	39
10	dup	20		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: 8/11/11 **Soil factor applied:** 100x

Field blank type: (circle one) Field Blank / Rinsate / Other: **Associated Samples:** All Soil (ND)

Analyte	Blank ID	Action Level	Sample Identification																	
	4	2.05																		
B	4.1																			

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.: DE231
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6387017BKG Matrix Spike Lab Sample ID: 6387017MS Matrix Spike Duplicate Lab Sample ID: 6387017MSD
 % Solids for Sample: 95.9
 Batch Id(s): P23708J

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	-	18628.0211		21435.4206		21144.8260		206.4857	206.4857	MG/KG	1360	1219	1			
Boron	-	0.3717	U	199.9639		201.2286		206.4857	206.4857	MG/KG	97	97	1	84 - 115		20P
Calcium	-	2081.3110		2688.1302		2627.6732		412.9714	412.9714	MG/KG	147	132	2			20P
Iron	-	19873.6018		21179.0644		20727.0754		103.2429	103.2429	MG/KG	1264	827	2			20P
Magnesium	-	4714.8670		5273.2725		5157.6777		206.4857	206.4857	MG/KG	270	214	2			20P
Manganese	-	245.5187		324.9868		304.6821		51.6214	51.6214	MG/KG	154	115	6			20P
Potassium	-	1960.4435		3323.7448		3225.0209		1032.4286	1032.4286	MG/KG	132	122	3	75 - 125		20P
Sodium	-	83.3614	B	1065.7512		1057.4474		1032.4286	1032.4286	MG/KG	95	94	1	75 - 125		20P
Strontium	-	17.6060		120.4452		118.8356		103.2429	103.2429	MG/KG	100	98	1	75 - 115		20P
Tin	-	2.3622	B	364.7446		359.2191		412.9714	412.9714	MG/KG	88	86	2	80 - 110		20P
Titanium	-	1139.6876		1392.9661		1368.5388		103.2429	103.2429	MG/KG	245	222	2			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 5A (MS/MSD)
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE
 SDG No.: DE231
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6387018BKG Matrix Spike Lab Sample ID: 6387018MS Matrix Spike Duplicate Lab Sample ID: 6387018MSD
 % Solids for Sample: 91.4
 Batch Id(s): P23726A

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	Q	%R	RPD
Antimony	121	0.1233	B	0.5122		0.7299		1.2999	1.2999	MG/KG	30	N	47	N	35	*	75 - 125	20	MS
Arsenic	75	5.1400		6.3847		7.9251		2.1665	2.1665	MG/KG	57	N	129	N	22	*	75 - 125	20	MS
Barium	137	159.3873		128.9295		157.3109		10.8326	10.8326	MG/KG	-281		-19		20			20	MS
Beryllium	9	0.9330		1.5408		1.9724		0.8666	0.8666	MG/KG	70	N	120		25	*	75 - 125	20	MS
Cadmium	111	0.2247		1.3484		1.6505		1.0833	1.0833	MG/KG	104		132	N	20		75 - 125	20	MS
Chromium	52	23.1947		29.7463		35.2276		10.8326	10.8326	MG/KG	60	N	111		17		75 - 125	20	MS
Cobalt	59	7.6083		62.4607		77.5397		54.1630	54.1630	MG/KG	101		129	N	22	*	75 - 125	20	MS
Copper	63	13.6915		21.8168		27.5798		10.8326	10.8326	MG/KG	75		128	N	23	*	75 - 125	20	MS
Lead	208	6.8512		8.7571		11.2139		3.2498	3.2498	MG/KG	59	N	134	N	25	*	75 - 125	20	MS
Molybdenum	98	0.7560		12.2473		14.8645		10.8326	10.8326	MG/KG	106		130	N	19		75 - 125	20	MS
Nickel	60	18.1816		25.8466		32.9094		10.8326	10.8326	MG/KG	71	N	136	N	24	*	75 - 125	20	MS
Selenium	78	0.1502	B	2.5067		2.7038		2.1665	2.1665	MG/KG	109		118		8		75 - 125	20	MS
Silver	107	0.0507	B	12.1022		14.5850		10.8326	10.8326	MG/KG	111		134	N	19		75 - 125	20	MS
Thallium	203	0.4026		0.7260		0.9472		0.4333	0.4333	MG/KG	75		126	N	26	*	75 - 125	20	MS
Vanadium	51	43.8293		46.7101		58.0844		10.8326	10.8326	MG/KG	27		132		22	*		20	MS
Zinc	66	83.0853		71.3435		88.5023		10.8326	10.8326	MG/KG	-108		50		21	*		20	MS

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

SAMPLE DELIVERY GROUP

DE232

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
25-Aug-2011	TB-082511	6388746	TB	5030B	8015M	III
25-Aug-2011	SL-246-SA6-SB-4.0-5.0	6388743	N	3050B	6010B	III
25-Aug-2011	SL-246-SA6-SB-4.0-5.0	6388743	N	3050B	6020	III
25-Aug-2011	SL-246-SA6-SB-4.0-5.0	6388743	N	3060A	7199	III
25-Aug-2011	SL-246-SA6-SB-4.0-5.0	6388743	N	3546	1625C	III
25-Aug-2011	SL-246-SA6-SB-4.0-5.0	6388743	N	3550B	8015B	III
25-Aug-2011	SL-246-SA6-SB-4.0-5.0	6388743	N	3550B	8015M	III
25-Aug-2011	SL-246-SA6-SB-4.0-5.0	6388743	N	3550B	8082	III
25-Aug-2011	SL-246-SA6-SB-4.0-5.0	6388743	N	3550B	8270C	III
25-Aug-2011	SL-246-SA6-SB-4.0-5.0	6388743	N	3550B	8270C SIM	III
25-Aug-2011	SL-246-SA6-SB-4.0-5.0	6388743	N	5035	8015M	III
25-Aug-2011	SL-246-SA6-SB-4.0-5.0	6388743	N	8330	8330A	III
25-Aug-2011	SL-246-SA6-SB-4.0-5.0	6388743	N	METHOD	300.0	III
25-Aug-2011	SL-246-SA6-SB-4.0-5.0	6388743	N	METHOD	314.0	III
25-Aug-2011	SL-246-SA6-SB-4.0-5.0	6388743	N	METHOD	6850	III
25-Aug-2011	SL-246-SA6-SB-4.0-5.0	6388743	N	METHOD	7471A	III
25-Aug-2011	SL-246-SA6-SB-4.0-5.0	6388743	N	METHOD	8015B	III
25-Aug-2011	SL-246-SA6-SB-4.0-5.0	6388743	N	METHOD	8015M	III
25-Aug-2011	SL-246-SA6-SB-4.0-5.0	6388743	N	METHOD	8315A	III
25-Aug-2011	SL-246-SA6-SB-4.0-5.0	6388743	N	METHOD	9012B	III
25-Aug-2011	SL-041-SA6-SB-3.0-4.0	6388741	N	3050B	6010B	III
25-Aug-2011	SL-041-SA6-SB-3.0-4.0	6388741	N	3050B	6020	III
25-Aug-2011	SL-041-SA6-SB-3.0-4.0	6388741	N	3060A	7199	III
25-Aug-2011	SL-041-SA6-SB-3.0-4.0	6388741	N	3546	1625C	III
25-Aug-2011	SL-041-SA6-SB-3.0-4.0	6388741	N	3550B	8015B	III
25-Aug-2011	SL-041-SA6-SB-3.0-4.0	6388741	N	3550B	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
25-Aug-2011	SL-041-SA6-SB-3.0-4.0	6388741	N	3550B	8082	III
25-Aug-2011	SL-041-SA6-SB-3.0-4.0	6388741	N	3550B	8270C	III
25-Aug-2011	SL-041-SA6-SB-3.0-4.0	6388741	N	3550B	8270C SIM	III
25-Aug-2011	SL-041-SA6-SB-3.0-4.0	6388741	N	5035	8015M	III
25-Aug-2011	SL-041-SA6-SB-3.0-4.0	6388741	N	8330	8330A	III
25-Aug-2011	SL-041-SA6-SB-3.0-4.0	6388741	N	METHOD	300.0	III
25-Aug-2011	SL-041-SA6-SB-3.0-4.0	6388741	N	METHOD	314.0	III
25-Aug-2011	SL-041-SA6-SB-3.0-4.0	6388741	N	METHOD	7471A	III
25-Aug-2011	SL-041-SA6-SB-3.0-4.0	6388741	N	METHOD	8015B	III
25-Aug-2011	SL-041-SA6-SB-3.0-4.0	6388741	N	METHOD	8015M	III
25-Aug-2011	SL-041-SA6-SB-3.0-4.0	6388741	N	METHOD	8315A	III
25-Aug-2011	SL-041-SA6-SB-3.0-4.0	6388741	N	METHOD	9012B	III
25-Aug-2011	SL-041-SA6-SB-3.0-4.0DUP	P388741D271710A	DUP	METHOD	314.0	III
25-Aug-2011	SL-041-SA6-SB-3.0-4.0MS	P388741R271733A	MS	METHOD	314.0	III
25-Aug-2011	SL-257-SA6-SB-1.5-2.5	6388745	N	3050B	6010B	III
25-Aug-2011	SL-257-SA6-SB-1.5-2.5	6388745	N	3050B	6020	III
25-Aug-2011	SL-257-SA6-SB-1.5-2.5	6388745	N	3060A	7199	III
25-Aug-2011	SL-257-SA6-SB-1.5-2.5	6388745	N	3546	1625C	III
25-Aug-2011	SL-257-SA6-SB-1.5-2.5	6388745	N	3550B	8015B	III
25-Aug-2011	SL-257-SA6-SB-1.5-2.5	6388745	N	3550B	8015M	III
25-Aug-2011	SL-257-SA6-SB-1.5-2.5	6388745	N	3550B	8082	III
25-Aug-2011	SL-257-SA6-SB-1.5-2.5	6388745	N	3550B	8270C	III
25-Aug-2011	SL-257-SA6-SB-1.5-2.5	6388745	N	3550B	8270C SIM	III
25-Aug-2011	SL-257-SA6-SB-1.5-2.5	6388745	N	5035	8015M	III
25-Aug-2011	SL-257-SA6-SB-1.5-2.5	6388745	N	8330	8330A	III
25-Aug-2011	SL-257-SA6-SB-1.5-2.5	6388745	N	METHOD	300.0	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
25-Aug-2011	SL-257-SA6-SB-1.5-2.5	6388745	N	METHOD	314.0	III
25-Aug-2011	SL-257-SA6-SB-1.5-2.5	6388745	N	METHOD	7471A	III
25-Aug-2011	SL-257-SA6-SB-1.5-2.5	6388745	N	METHOD	8015B	III
25-Aug-2011	SL-257-SA6-SB-1.5-2.5	6388745	N	METHOD	8015M	III
25-Aug-2011	SL-257-SA6-SB-1.5-2.5	6388745	N	METHOD	8315A	III
25-Aug-2011	SL-257-SA6-SB-1.5-2.5	6388745	N	METHOD	9012B	III
25-Aug-2011	SL-195-SA6-SB-1.0-2.0	6388742	N	3050B	6010B	III
25-Aug-2011	SL-195-SA6-SB-1.0-2.0	6388742	N	3050B	6020	III
25-Aug-2011	SL-195-SA6-SB-1.0-2.0	6388742	N	3060A	7199	III
25-Aug-2011	SL-195-SA6-SB-1.0-2.0	6388742	N	3546	1625C	III
25-Aug-2011	SL-195-SA6-SB-1.0-2.0	6388742	N	3550B	8015B	III
25-Aug-2011	SL-195-SA6-SB-1.0-2.0	6388742	N	3550B	8015M	III
25-Aug-2011	SL-195-SA6-SB-1.0-2.0	6388742	N	3550B	8082	III
25-Aug-2011	SL-195-SA6-SB-1.0-2.0	6388742	N	3550B	8270C	III
25-Aug-2011	SL-195-SA6-SB-1.0-2.0	6388742	N	3550B	8270C SIM	III
25-Aug-2011	SL-195-SA6-SB-1.0-2.0	6388742	N	5035	8015M	III
25-Aug-2011	SL-195-SA6-SB-1.0-2.0	6388742	N	8330	8330A	III
25-Aug-2011	SL-195-SA6-SB-1.0-2.0	6388742	N	METHOD	300.0	III
25-Aug-2011	SL-195-SA6-SB-1.0-2.0	6388742	N	METHOD	314.0	III
25-Aug-2011	SL-195-SA6-SB-1.0-2.0	6388742	N	METHOD	6850	III
25-Aug-2011	SL-195-SA6-SB-1.0-2.0	6388742	N	METHOD	7471A	III
25-Aug-2011	SL-195-SA6-SB-1.0-2.0	6388742	N	METHOD	8015B	III
25-Aug-2011	SL-195-SA6-SB-1.0-2.0	6388742	N	METHOD	8015M	III
25-Aug-2011	SL-195-SA6-SB-1.0-2.0	6388742	N	METHOD	8315A	III
25-Aug-2011	SL-195-SA6-SB-1.0-2.0	6388742	N	METHOD	9012B	III
25-Aug-2011	SL-247-SA6-SB-4.0-5.0	6388744	N	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
25-Aug-2011	SL-247-SA6-SB-4.0-5.0	6388744	N	3050B	6020	III
25-Aug-2011	SL-247-SA6-SB-4.0-5.0	6388744	N	3060A	7199	III
25-Aug-2011	SL-247-SA6-SB-4.0-5.0	6388744	N	3546	1625C	III
25-Aug-2011	SL-247-SA6-SB-4.0-5.0	6388744	N	3550B	8015B	III
25-Aug-2011	SL-247-SA6-SB-4.0-5.0	6388744	N	3550B	8015M	III
25-Aug-2011	SL-247-SA6-SB-4.0-5.0	6388744	N	3550B	8082	III
25-Aug-2011	SL-247-SA6-SB-4.0-5.0	6388744	N	3550B	8270C	III
25-Aug-2011	SL-247-SA6-SB-4.0-5.0	6388744	N	3550B	8270C SIM	III
25-Aug-2011	SL-247-SA6-SB-4.0-5.0	6388744	N	5035	8015M	III
25-Aug-2011	SL-247-SA6-SB-4.0-5.0	6388744	N	8330	8330A	III
25-Aug-2011	SL-247-SA6-SB-4.0-5.0	6388744	N	METHOD	300.0	III
25-Aug-2011	SL-247-SA6-SB-4.0-5.0	6388744	N	METHOD	314.0	III
25-Aug-2011	SL-247-SA6-SB-4.0-5.0	6388744	N	METHOD	7471A	III
25-Aug-2011	SL-247-SA6-SB-4.0-5.0	6388744	N	METHOD	8015B	III
25-Aug-2011	SL-247-SA6-SB-4.0-5.0	6388744	N	METHOD	8015M	III
25-Aug-2011	SL-247-SA6-SB-4.0-5.0	6388744	N	METHOD	8315A	III
25-Aug-2011	SL-247-SA6-SB-4.0-5.0	6388744	N	METHOD	9012B	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE232

Laboratory: LL

EDD Filename: DE232_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-195-SA6-SB-1.0-2.0 Collected: 8/25/2011 12:22:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.0	J	0.83	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-247-SA6-SB-4.0-5.0 Collected: 8/25/2011 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
Nitrate-NO3	0.90	J	0.86	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-257-SA6-SB-1.5-2.5 Collected: 8/25/2011 10:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.3	J	0.85	MDL	1.6	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-041-SA6-SB-3.0-4.0 Collected: 8/25/2011 9:35:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.36	J	0.360	MDL	5.00	PQL	mg/Kg	J	Z

Sample ID: SL-041-SA6-SB-3.0-4.0 Collected: 8/25/2011 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
SODIUM	85.0	J	5.95	MDL	100	PQL	mg/Kg	J	Z
TIN	2.44	J	0.320	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	0.587	J	0.460	MDL	5.00	PQL	mg/Kg	J	Z

Sample ID: SL-195-SA6-SB-1.0-2.0 Collected: 8/25/2011 12:22:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.82	J	0.364	MDL	5.06	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE232

Laboratory: LL

EDD Filename: DE232_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-195-SA6-SB-1.0-2.0	Collected: 8/25/2011 12:22:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	79.4	J	6.02	MDL	101	PQL	mg/Kg	J	Z
TIN	2.57	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.68	J	0.465	MDL	5.06	PQL	mg/Kg	J	Z

Sample ID: SL-246-SA6-SB-4.0-5.0	Collected: 8/25/2011 9:09:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	108	J	6.47	MDL	109	PQL	mg/Kg	J	Z
TIN	2.78	J	0.348	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.46	J	0.501	MDL	5.44	PQL	mg/Kg	J	Z

Sample ID: SL-247-SA6-SB-4.0-5.0	Collected: 8/25/2011 2:45:00	Analysis Type: REA	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.78	J	0.386	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-247-SA6-SB-4.0-5.0	Collected: 8/25/2011 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
SODIUM	60.9	J	6.38	MDL	107	PQL	mg/Kg	J	Z
TIN	2.65	J	0.343	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.57	J	0.493	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-257-SA6-SB-1.5-2.5	Collected: 8/25/2011 10:10:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.89	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.25	J	0.470	MDL	5.11	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE232

Laboratory: LL

EDD Filename: DE232_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS									
Method:	6020			Matrix: SO						

Sample ID: SL-041-SA6-SB-3.0-4.0			Collected: 8/25/2011 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	0.183	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z, Q	

Sample ID: SL-041-SA6-SB-3.0-4.0			Collected: 8/25/2011 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	0.441		0.0495	MDL	0.0990	PQL	mg/Kg	J	Q, E, E	

Sample ID: SL-041-SA6-SB-3.0-4.0			Collected: 8/25/2011 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	49.5		0.105	MDL	0.396	PQL	mg/Kg	J	A, E	

Sample ID: SL-041-SA6-SB-3.0-4.0			Collected: 8/25/2011 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	0.0733	U	0.0733	MDL	0.198	PQL	mg/Kg	UJ	E	
ARSENIC	2.45		0.0792	MDL	0.396	PQL	mg/Kg	J	A	
BERYLLIUM	0.513		0.0158	MDL	0.0990	PQL	mg/Kg	J	Q	
CADMIUM	0.0436	U	0.0436	MDL	0.0990	PQL	mg/Kg	UJ	E	
CHROMIUM	6.21		0.119	MDL	0.396	PQL	mg/Kg	J	E, E	
COBALT	2.12		0.0198	MDL	0.0990	PQL	mg/Kg	J	A, Q	
COPPER	2.93		0.0792	MDL	0.396	PQL	mg/Kg	J	A, E	
LEAD	4.21		0.0101	MDL	0.198	PQL	mg/Kg	J	A	
NICKEL	3.71		0.0990	MDL	0.396	PQL	mg/Kg	J	A, E	
SILVER	0.0141	U	0.0141	MDL	0.0990	PQL	mg/Kg	UJ	E	
THALLIUM	0.210		0.0297	MDL	0.0990	PQL	mg/Kg	J	Q	
ZINC	53.5		0.555	MDL	2.97	PQL	mg/Kg	J	E	

Sample ID: SL-195-SA6-SB-1.0-2.0			Collected: 8/25/2011 12:22:00			Analysis Type: REA		Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
SELENIUM	0.129	J	0.0598	MDL	0.413	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: DE232

Laboratory: LL

EDD Filename: DE232_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Matrix:	SO
Method:	6020		

Sample ID: SL-195-SA6-SB-1.0-2.0	Collected: 8/25/2011 12:22:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.538		0.0516	MDL	0.103	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-195-SA6-SB-1.0-2.0	Collected: 8/25/2011 12:22:00	Analysis Type: REA3	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	78.6		0.109	MDL	0.413	PQL	mg/Kg	J	A, E

Sample ID: SL-195-SA6-SB-1.0-2.0	Collected: 8/25/2011 12:22:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.122	J	0.0763	MDL	0.206	PQL	mg/Kg	J	Z, E
ARSENIC	4.55		0.0825	MDL	0.413	PQL	mg/Kg	J	A
BERYLLIUM	0.524		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CADMIUM	0.218		0.0454	MDL	0.103	PQL	mg/Kg	J	E, Q
CHROMIUM	13.5		0.124	MDL	0.413	PQL	mg/Kg	J	E, E
COBALT	4.43		0.0206	MDL	0.103	PQL	mg/Kg	J	A, Q
COPPER	7.17		0.0825	MDL	0.413	PQL	mg/Kg	J	A, E
LEAD	6.92		0.0105	MDL	0.206	PQL	mg/Kg	J	A
NICKEL	11.2		0.103	MDL	0.413	PQL	mg/Kg	J	A, E
SILVER	0.225		0.0146	MDL	0.103	PQL	mg/Kg	J	Q, E
THALLIUM	0.233		0.0309	MDL	0.103	PQL	mg/Kg	J	Q
ZINC	52.9		0.578	MDL	3.09	PQL	mg/Kg	J	E

Sample ID: SL-246-SA6-SB-4.0-5.0	Collected: 8/25/2011 9:09:00	Analysis Type: REA	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.203	J	0.0619	MDL	0.427	PQL	mg/Kg	J	Z, Q

Sample ID: SL-246-SA6-SB-4.0-5.0	Collected: 8/25/2011 9:09:00	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		0.0534	MDL	0.107	PQL	mg/Kg	J	Q, E, 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: DE232

Laboratory: LL

EDD Filename: DE232_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-246-SA6-SB-4.0-5.0	Collected: 8/25/2011 9:09:00	Analysis Type: REA3	Dilution: 5						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	159		0.283	MDL	1.07	PQL	mg/Kg	J	A, E

Sample ID: SL-246-SA6-SB-4.0-5.0	Collected: 8/25/2011 9:09:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.225		0.0790	MDL	0.213	PQL	mg/Kg	J	E
ARSENIC	6.96		0.0854	MDL	0.427	PQL	mg/Kg	J	A
BERYLLIUM	1.10		0.0171	MDL	0.107	PQL	mg/Kg	J	Q
CADMIUM	0.479		0.0470	MDL	0.107	PQL	mg/Kg	J	E, Q
CHROMIUM	31.3		0.128	MDL	0.427	PQL	mg/Kg	J	E, E
COBALT	10.1		0.0213	MDL	0.107	PQL	mg/Kg	J	A, Q
COPPER	18.3		0.0854	MDL	0.427	PQL	mg/Kg	J	A, E
LEAD	11.3		0.0109	MDL	0.213	PQL	mg/Kg	J	A
NICKEL	24.2		0.107	MDL	0.427	PQL	mg/Kg	J	A, E
SILVER	0.129		0.0152	MDL	0.107	PQL	mg/Kg	J	Q, E
THALLIUM	0.453		0.0320	MDL	0.107	PQL	mg/Kg	J	Q
ZINC	94.6		0.598	MDL	3.20	PQL	mg/Kg	J	E

Sample ID: SL-247-SA6-SB-4.0-5.0	Collected: 8/25/2011 2:45:00	Analysis Type: REA	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0652	J	0.0604	MDL	0.417	PQL	mg/Kg	J	Z, Q

Sample ID: SL-247-SA6-SB-4.0-5.0	Collected: 8/25/2011 2:45:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.579		0.0521	MDL	0.104	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-247-SA6-SB-4.0-5.0	Collected: 8/25/2011 2:45:00	Analysis Type: REA3	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	105		0.110	MDL	0.417	PQL	mg/Kg	J	A, 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: DE232

Laboratory: LL

EDD Filename: DE232_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-247-SA6-SB-4.0-5.0 Collected: 8/25/2011 2:45:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0771	U	0.0771	MDL	0.208	PQL	mg/Kg	UJ	E
ARSENIC	4.95		0.0833	MDL	0.417	PQL	mg/Kg	J	A
BERYLLIUM	0.819		0.0167	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.0655	J	0.0458	MDL	0.104	PQL	mg/Kg	J	Z, E, Q
CHROMIUM	16.0		0.125	MDL	0.417	PQL	mg/Kg	J	E, E
COBALT	4.44		0.0208	MDL	0.104	PQL	mg/Kg	J	A, Q
COPPER	6.67		0.0833	MDL	0.417	PQL	mg/Kg	J	A, E
LEAD	5.68		0.0106	MDL	0.208	PQL	mg/Kg	J	A
NICKEL	11.0		0.104	MDL	0.417	PQL	mg/Kg	J	A, E
SILVER	0.0596	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.295		0.0313	MDL	0.104	PQL	mg/Kg	J	Q
ZINC	57.5		0.583	MDL	3.13	PQL	mg/Kg	J	E

Sample ID: SL-257-SA6-SB-1.5-2.5 Collected: 8/25/2011 10:10:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.218	J	0.0587	MDL	0.405	PQL	mg/Kg	J	Z, Q

Sample ID: SL-257-SA6-SB-1.5-2.5 Collected: 8/25/2011 10:10:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.03		0.0506	MDL	0.101	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-257-SA6-SB-1.5-2.5 Collected: 8/25/2011 10:10:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	111		0.107	MDL	0.405	PQL	mg/Kg	J	A, E

Sample ID: SL-257-SA6-SB-1.5-2.5 Collected: 8/25/2011 10:10:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.151	J	0.0748	MDL	0.202	PQL	mg/Kg	J	Z, E
ARSENIC	6.40		0.0809	MDL	0.405	PQL	mg/Kg	J	A
BERYLLIUM	0.779		0.0162	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.287		0.0445	MDL	0.101	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: DE232

Laboratory: LL

EDD Filename: DE232_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-257-SA6-SB-1.5-2.5 Collected: 8/25/2011 10:10:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	18.1		0.121	MDL	0.405	PQL	mg/Kg	J	E, E
COBALT	5.97		0.0202	MDL	0.101	PQL	mg/Kg	J	A, Q
COPPER	10.4		0.0809	MDL	0.405	PQL	mg/Kg	J	A, E
LEAD	8.67		0.0103	MDL	0.202	PQL	mg/Kg	J	A
NICKEL	13.8		0.101	MDL	0.405	PQL	mg/Kg	J	A, E
SILVER	0.0593	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.339		0.0303	MDL	0.101	PQL	mg/Kg	J	Q
ZINC	75.3		0.566	MDL	3.03	PQL	mg/Kg	J	E

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-041-SA6-SB-3.0-4.0 Collected: 8/25/2011 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
HEXAVALENT CHROMIUM	0.28	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-246-SA6-SB-4.0-5.0 Collected: 8/25/2011 9:09:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.25	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-257-SA6-SB-1.5-2.5 Collected: 8/25/2011 10:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-195-SA6-SB-1.0-2.0 Collected: 8/25/2011 12:22:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0140	J	0.0073	MDL	0.103	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: DE232

Laboratory: LL

EDD Filename: DE232_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-246-SA6-SB-4.0-5.0	Collected: 8/25/2011 9:09:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0431	J	0.0076	MDL	0.108	PQL	mg/Kg	U	B

Sample ID: SL-257-SA6-SB-1.5-2.5	Collected: 8/25/2011 10:10:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0110	J	0.0072	MDL	0.102	PQL	mg/Kg	U	B

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-195-SA6-SB-1.0-2.0	Collected: 8/25/2011 12:22:00	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)	1.1	J	0.42	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-247-SA6-SB-4.0-5.0	Collected: 8/25/2011 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
EFH (C30-C40)	0.83	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-257-SA6-SB-1.5-2.5	Collected: 8/25/2011 10:10:00	Analysis Type: REA2	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.92	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-041-SA6-SB-3.0-4.0	Collected: 8/25/2011 9:35:00	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	0.69	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: DE232

Laboratory: LL

EDD Filename: DE232_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8032	Matrix:	SO
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Sample ID: SL-195-SA6-SB-1.0-2.0 Collected: 8/25/2011 12:22:00 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	1.2	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	1.7	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-247-SA6-SB-4.0-5.0 Collected: 8/25/2011 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
AROCLOR 1254	0.63	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Method Category:	SVOA	Method:	8270C SIM	Matrix:	SO
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Sample ID: SL-041-SA6-SB-3.0-4.0 Collected: 8/25/2011 9:35:00 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(B)FLUORANTHENE	1.4	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.80	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.0	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.4	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-195-SA6-SB-1.0-2.0 Collected: 8/25/2011 12:22:00 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	0.41	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	1.0	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.4	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.72	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.1	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	0.93	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.75	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.0	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
FLUORENE	0.92	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.80	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.0	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.95	J	0.69	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

1/5/2012 8:06:03 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE232

Laboratory: LL

EDD Filename: DE232_v1.

eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-257-SA6-SB-1.5-2.5

Collected: 8/25/2011 10:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.62	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-octylphthalate	11	J	6.2	MDL	19	PQL	ug/Kg	J	Z
FLUORANTHENE	1.1	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.69	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

1/5/2012 8:06:03 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE232

Laboratory: LL

EDD Filename: DE232_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

1/5/2012 8:06:03 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE232

Laboratory: LL

EDD Filename: DE232_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

1/5/2012 8:06:03 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE232

Laboratory: LL

EDD Filename: DE232_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

1/5/2012 8:06:03 AM

ADR version 1.4.0.111

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE232

Method Blank Outlier Report

Lab Reporting Batch ID: DE232

Laboratory: LL

EDD Filename: DE232_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P24308BB221257	9/1/2011 12:57:00 PM	CALCIUM IRON MAGNESIUM PHOSPHORUS STRONTIUM TIN	11.0 mg/Kg 2.72 mg/Kg 0.982 mg/Kg 1.33 mg/Kg 0.0530 mg/Kg 1.69 mg/Kg	SL-041-SA6-SB-3.0-4.0 SL-195-SA6-SB-1.0-2.0 SL-246-SA6-SB-4.0-5.0 SL-247-SA6-SB-4.0-5.0 SL-257-SA6-SB-1.5-2.5

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-041-SA6-SB-3.0-4.0(RES)	TIN	2.44 mg/Kg	2.44U mg/Kg
SL-195-SA6-SB-1.0-2.0(RES)	TIN	2.57 mg/Kg	2.57U mg/Kg
SL-246-SA6-SB-4.0-5.0(RES)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-247-SA6-SB-4.0-5.0(RES)	TIN	2.65 mg/Kg	2.65U mg/Kg
SL-257-SA6-SB-1.5-2.5(RES)	TIN	2.89 mg/Kg	2.89U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P24326AB221253A	9/1/2011 12:53:00 PM	VANADIUM	0.0962 mg/Kg	SL-041-SA6-SB-3.0-4.0 SL-195-SA6-SB-1.0-2.0 SL-246-SA6-SB-4.0-5.0 SL-247-SA6-SB-4.0-5.0 SL-257-SA6-SB-1.5-2.5

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE232

Laboratory: LL

EDD Filename: DE232_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
P24308BQ220216 P24308BQ221301 (SL -041 -SA6 -SB -3.0-4.0 SL -195 -SA6 -SB -1.0-2.0 SL -246 -SA6 -SB -4.0-5.0 SL -247 -SA6 -SB -4.0-5.0 SL -257 -SA6 -SB -1.5-2.5)	ALUMINUM IRON MAGNESIUM POTASSIUM	152 144 136 129	- - - -	80.00-120.00 80.00-120.00 80.00-120.00 80.00-120.00	- - - -	ALUMINUM IRON MAGNESIUM POTASSIUM	No Qual, SRM within QC Limits
P25008AQ220635 (SL -041 -SA6 -SB -3.0-4.0 SL -195 -SA6 -SB -1.0-2.0 SL -246 -SA6 -SB -4.0-5.0 SL -247 -SA6 -SB -4.0-5.0 SL -257 -SA6 -SB -1.5-2.5)	TITANIUM	186	-	80.00-120.00	-	TITANIUM	No Qual, SRM within QC Limits

Reporting Limit Outliers

Lab Reporting Batch ID: DE232

Laboratory: LL

EDD Filename: DE232_v1.

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-195-SA6-SB-1.0-2.0	Nitrate-NO3	J	1.0	1.5	PQL	mg/Kg	J (all detects)
SL-247-SA6-SB-4.0-5.0	Nitrate-NO3	J	0.90	1.6	PQL	mg/Kg	J (all detects)
SL-257-SA6-SB-1.5-2.5	Nitrate-NO3	J	1.3	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-041-SA6-SB-3.0-4.0	BORON	J	2.36	5.00	PQL	mg/Kg	J (all detects)
	SODIUM	J	85.0	100	PQL	mg/Kg	
	TIN	J	2.44	10.0	PQL	mg/Kg	
	Zirconium	J	0.587	5.00	PQL	mg/Kg	
SL-195-SA6-SB-1.0-2.0	BORON	J	4.82	5.06	PQL	mg/Kg	J (all detects)
	SODIUM	J	79.4	101	PQL	mg/Kg	
	TIN	J	2.57	10.1	PQL	mg/Kg	
	Zirconium	J	1.68	5.06	PQL	mg/Kg	
SL-246-SA6-SB-4.0-5.0	SODIUM	J	108	109	PQL	mg/Kg	J (all detects)
	TIN	J	2.78	10.9	PQL	mg/Kg	
	Zirconium	J	2.46	5.44	PQL	mg/Kg	
SL-247-SA6-SB-4.0-5.0	BORON	J	3.78	5.36	PQL	mg/Kg	J (all detects)
	SODIUM	J	60.9	107	PQL	mg/Kg	
	TIN	J	2.65	10.7	PQL	mg/Kg	
	Zirconium	J	1.57	5.36	PQL	mg/Kg	
SL-257-SA6-SB-1.5-2.5	TIN	J	2.89	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.25	5.11	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-041-SA6-SB-3.0-4.0	SELENIUM	J	0.183	0.396	PQL	mg/Kg	J (all detects)
SL-195-SA6-SB-1.0-2.0	ANTIMONY	J	0.122	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.129	0.413	PQL	mg/Kg	
SL-246-SA6-SB-4.0-5.0	SELENIUM	J	0.203	0.427	PQL	mg/Kg	J (all detects)
SL-247-SA6-SB-4.0-5.0	CADMIUM	J	0.0655	0.104	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0652	0.417	PQL	mg/Kg	
	SILVER	J	0.0596	0.104	PQL	mg/Kg	
SL-257-SA6-SB-1.5-2.5	ANTIMONY	J	0.151	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.218	0.405	PQL	mg/Kg	
	SILVER	J	0.0593	0.101	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE232

Laboratory: LL

EDD Filename: DE232_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-041-SA6-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.28	1.0	PQL	mg/Kg	J (all detects)
SL-246-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.25	1.1	PQL	mg/Kg	J (all detects)
SL-257-SA6-SB-1.5-2.5	HEXAVALENT CHROMIUM	J	0.32	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-195-SA6-SB-1.0-2.0	MERCURY	J	0.0140	0.103	PQL	mg/Kg	J (all detects)
SL-246-SA6-SB-4.0-5.0	MERCURY	J	0.0431	0.108	PQL	mg/Kg	J (all detects)
SL-257-SA6-SB-1.5-2.5	MERCURY	J	0.0110	0.102	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-195-SA6-SB-1.0-2.0	EFH (C21-C30)	J	1.1	1.2	PQL	mg/Kg	J (all detects)
SL-247-SA6-SB-4.0-5.0	EFH (C30-C40)	J	0.83	1.3	PQL	mg/Kg	J (all detects)
SL-257-SA6-SB-1.5-2.5	EFH (C15-C20)	J	0.92	1.2	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-041-SA6-SB-3.0-4.0	AROCLOR 1260	J	0.69	1.8	PQL	ug/Kg	J (all detects)
SL-195-SA6-SB-1.0-2.0	AROCLOR 1254	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.7	1.8	PQL	ug/Kg	J (all detects)
SL-247-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.63	1.8	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-041-SA6-SB-3.0-4.0	BENZO(B)FLUORANTHENE	J	1.4	1.7	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	0.80	1.7	PQL	ug/Kg	
	CHRYSENE	J	1.0	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.7	PQL	ug/Kg	
	PYRENE	J	1.4	1.7	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE232

Laboratory: LL

EDD Filename: DE232_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-195-SA6-SB-1.0-2.0	ACENAPHTHYLENE	J	0.41	1.7	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	1.0	1.7	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.4	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.72	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.1	1.7	PQL	ug/Kg	
	CHRYSENE	J	0.93	1.7	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.75	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	1.0	1.7	PQL	ug/Kg	
	FLUORENE	J	0.92	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.80	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.0	1.7	PQL	ug/Kg	
PYRENE	J	0.95	1.7	PQL	ug/Kg		
SL-257-SA6-SB-1.5-2.5	ANTHRACENE	J	0.62	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.3	1.7	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.3	1.7	PQL	ug/Kg	
	Di-n-octylphthalate	J	11	19	PQL	ug/Kg	
	FLUORANTHENE	J	1.1	1.7	PQL	ug/Kg	
	PYRENE	J	1.2	1.7	PQL	ug/Kg	

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	
VII.	Duplicate Sample Analysis	SW	
VIII.	Laboratory Control Samples (LCS)	SW	SRM Ti ✓
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	As, Ba, Co, Cu, Pb, Ni J/WJ
XII.	Sample Result Verification	N	(from smy 08-233)
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: Soil

1	SL-041-SA6-SB-3.0-4.0	11		21		31	
2	SL-195-SA6-SB-1.0-2.0	12		22		32	
3	SL-246-SA6-SB-4.0-5.0	13		23		33	
4	SL-247-SA6-SB-4.0-5.0	14		24		34	
5	SL-257-SA6-SB-1.5-2.5	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

Soil preparation factor applied: 167X

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: All Soil Reason: B

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	2	3	5						
Hg			0.058	0.0484	0.014	0.043	0.011						

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.

SAMPLE DELIVERY GROUP

DE233

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
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	3050B	6010B	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	3050B	6020	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	3060A	7199	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	3550B	8015M	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	3550B	8082	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	3550B	8270C	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	3550B	8270C SIM	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	5035	8015M	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	METHOD	300.0	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	METHOD	314.0	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	METHOD	7471A	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	METHOD	8015B	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	METHOD	8015M	III
12-Aug-2011	TB-081211	6375329	TB	5030B	8015M	III
12-Aug-2011	TB-081211	6375329	TB	5030B	8260B	III
12-Aug-2011	TB-081211	6375329	TB	5030B	8260B SIM	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	3050B	6010B	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	3050B	6020	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	3060A	7199	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	3550B	8015B	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	3550B	8015M	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	3550B	8082	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	3550B	8270C	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	3550B	8270C SIM	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	5035	8015M	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	5035	8260B	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
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	5035	8260B SIM	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	METHOD	300.0	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	METHOD	314.0	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	METHOD	7471A	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	METHOD	8015B	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	METHOD	8015M	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	3050B	6010B	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	3050B	6020	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	3060A	7199	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	3550B	8015B	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	3550B	8015M	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	3550B	8082	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	3550B	8270C	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	3550B	8270C SIM	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	5035	8015M	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	METHOD	300.0	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	METHOD	314.0	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	METHOD	7471A	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	METHOD	8015B	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	METHOD	8015M	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	3050B	6010B	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	3050B	6020	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	3060A	7199	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	3550B	8015B	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	3550B	8015M	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	3550B	8082	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	3550B	8270C	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	3550B	8270C SIM	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	5035	8015M	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	METHOD	300.0	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	METHOD	314.0	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	METHOD	7471A	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	METHOD	8015B	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	METHOD	8015M	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MSD	6375325	MSD	3050B	6010B	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MSD	6375325	MSD	3050B	6020	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MSD	6375325	MSD	3550B	8015B	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MSD	6375325	MSD	3550B	8015M	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MSD	6375325	MSD	3550B	8082	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MSD	6375325	MSD	3550B	8270C	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MSD	6375325	MSD	3550B	8270C SIM	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MSD	6375325	MSD	5035	8015M	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MSD	6375325	MSD	METHOD	7471A	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MSD	6375325	MSD	METHOD	8015B	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MSD	6375325	MSD	METHOD	8015M	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0DUP	6375326	DUP	3050B	6010B	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0DUP	6375326	DUP	3050B	6020	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0DUP	6375326	DUP	3060A	7199	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0DUP	6375326	DUP	METHOD	300.0	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0DUP	6375326	DUP	METHOD	314.0	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0DUP	6375326	DUP	METHOD	7471A	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	3050B	6010B	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
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	3050B	6020	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	3060A	7199	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	3550B	8015B	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	3550B	8015M	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	3550B	8082	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	3550B	8270C	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	3550B	8270C SIM	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	5035	8015M	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	METHOD	300.0	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	METHOD	314.0	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	METHOD	7471A	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	METHOD	8015B	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	METHOD	8015M	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	3050B	6010B	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	3050B	6020	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	3060A	7199	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	3550B	8015B	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	3550B	8015M	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	3550B	8082	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	3550B	8270C	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	3550B	8270C SIM	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	5035	8015M	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	METHOD	300.0	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	METHOD	314.0	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	METHOD	6850	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	METHOD	7471A	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
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	METHOD	8015B	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	METHOD	8015M	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	3050B	6010B	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	3050B	6020	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	3060A	7199	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	3546	1625C	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	3550B	8015B	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	3550B	8015M	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	3550B	8082	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	3550B	8270C	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	3550B	8270C SIM	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	5035	8015M	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	METHOD	300.0	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	METHOD	314.0	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	METHOD	7471A	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	METHOD	8015B	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	METHOD	8015M	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	METHOD	8315A	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0MSD	P375327M261515	MSD	3546	1625C	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0MS	P375327R261456	MS	3546	1625C	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-250-SA6-SB-3.0-4.0 Collected: 8/26/2011 10:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.4	J	0.82	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-256-SA6-SB-2.5-3.5 Collected: 8/26/2011 11:42:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.5	J	0.87	MDL	1.6	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: DUP13-SA6-QC-082611 Collected: 8/26/2011 8:55:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.34	J	0.375	MDL	5.21	PQL	mg/Kg	J	Z, FD

Sample ID: DUP13-SA6-QC-082611 Collected: 8/26/2011 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
TITANIUM	1000		0.0726	MDL	1.02	PQL	mg/Kg	J	L

Sample ID: DUP13-SA6-QC-082611 Collected: 8/26/2011 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
SODIUM	91.6	J	6.21	MDL	104	PQL	mg/Kg	J	Z, FD
STRONTIUM	12.6		0.0261	MDL	0.521	PQL	mg/Kg	J	FD
TIN	2.52	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.41	J	0.480	MDL	5.21	PQL	mg/Kg	J	Z, FD

Sample ID: SL-113-SA6-SB-4.0-5.0 Collected: 8/26/2011 1:50:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.89	J	0.370	MDL	5.14	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: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	6010B	Matrix:	SO
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Sample ID: SL-113-SA6-SB-4.0-5.0 Collected: 8/26/2011 1:50:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1160		0.0730	MDL	1.03	PQL	mg/Kg	J	L

Sample ID: SL-113-SA6-SB-4.0-5.0 Collected: 8/26/2011 1:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.64	J	0.329	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.49	J	0.473	MDL	5.14	PQL	mg/Kg	J	Z

Sample ID: SL-113-SA6-SB-7.0-8.0 Collected: 8/26/2011 2:15:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.22	J	0.375	MDL	5.21	PQL	mg/Kg	J	Z

Sample ID: SL-113-SA6-SB-7.0-8.0 Collected: 8/26/2011 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
TITANIUM	1180		0.0741	MDL	1.04	PQL	mg/Kg	J	L

Sample ID: SL-113-SA6-SB-7.0-8.0 Collected: 8/26/2011 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
SODIUM	87.1	J	6.21	MDL	104	PQL	mg/Kg	J	Z
TIN	2.69	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.97	J	0.480	MDL	5.21	PQL	mg/Kg	J	Z

Sample ID: SL-250-SA6-SB-3.0-4.0 Collected: 8/26/2011 10:15:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.57	J	0.370	MDL	5.14	PQL	mg/Kg	J	Z

Sample ID: SL-250-SA6-SB-3.0-4.0 Collected: 8/26/2011 10:15:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1120		0.0708	MDL	0.997	PQL	mg/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: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-250-SA6-SB-3.0-4.0 Collected: 8/26/2011 10:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	102	J	6.11	MDL	103	PQL	mg/Kg	J	Z
TIN	2.46	J	0.329	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.81	J	0.472	MDL	5.14	PQL	mg/Kg	J	Z

Sample ID: SL-252-SA6-SB-4.0-5.0 Collected: 8/26/2011 8:49:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.699	J	0.368	MDL	5.12	PQL	mg/Kg	J	Z, FD

Sample ID: SL-252-SA6-SB-4.0-5.0 Collected: 8/26/2011 8:49:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1040		0.0726	MDL	1.02	PQL	mg/Kg	J	L

Sample ID: SL-252-SA6-SB-4.0-5.0 Collected: 8/26/2011 8:49:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	177		6.09	MDL	102	PQL	mg/Kg	J	FD
STRONTIUM	25.3		0.0256	MDL	0.512	PQL	mg/Kg	J	FD
TIN	3.69	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.98	J	0.471	MDL	5.12	PQL	mg/Kg	J	Z, FD

Sample ID: SL-256-SA6-SB-2.5-3.5 Collected: 8/26/2011 11:42:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.20	J	0.369	MDL	5.13	PQL	mg/Kg	J	Z

Sample ID: SL-256-SA6-SB-2.5-3.5 Collected: 8/26/2011 11:42:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1070		0.0729	MDL	1.03	PQL	mg/Kg	J	L

Sample ID: SL-256-SA6-SB-2.5-3.5 Collected: 8/26/2011 11:42:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.43	J	0.328	MDL	10.3	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

11/17/2011 9:14:22 AM

ADR version 1.4.0.111

Data Qualifier Summary

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS			
Method:	6010B	Matrix:	SO	

Sample ID: SL-256-SA6-SB-2.5-3.5	Collected: 8/26/2011 11:42:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.26	J	0.472	MDL	5.13	PQL	mg/Kg	J	Z

Sample ID: SL-291-SA6-SB-2.0-3.0	Collected: 8/26/2011 9:35:00	Analysis Type: REA	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.67	J	0.365	MDL	5.07	PQL	mg/Kg	J	Z

Sample ID: SL-291-SA6-SB-2.0-3.0	Collected: 8/26/2011 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
TITANIUM	1020		0.0712	MDL	1.00	PQL	mg/Kg	J	L

Sample ID: SL-291-SA6-SB-2.0-3.0	Collected: 8/26/2011 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	2.73	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.57	J	0.466	MDL	5.07	PQL	mg/Kg	J	Z

Method Category:	METALS			
Method:	6020	Matrix:	SO	

Sample ID: DUP13-SA6-QC-082611	Collected: 8/26/2011 8:55:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0920	J	0.0605	MDL	0.417	PQL	mg/Kg	J	Z, Q, FD

Sample ID: DUP13-SA6-QC-082611	Collected: 8/26/2011 8:55:00	Analysis Type: REA3	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.27		0.0521	MDL	0.104	PQL	mg/Kg	J	E, E, FD

Sample ID: DUP13-SA6-QC-082611	Collected: 8/26/2011 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
BARIUM	126		0.111	MDL	0.417	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

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

11/17/2011 9:14:22 AM

ADR version 1.4.0.111

Data Qualifier Summary

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: DUP13-SA6-QC-082611 Collected: 8/26/2011 8:55:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.191	J	0.0772	MDL	0.209	PQL	mg/Kg	J	Z, E, FD
ARSENIC	4.58		0.0834	MDL	0.417	PQL	mg/Kg	J	FD, A
BERYLLIUM	0.616		0.0167	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.384		0.0459	MDL	0.104	PQL	mg/Kg	J	Q, E, FD
CHROMIUM	20.1		0.125	MDL	0.417	PQL	mg/Kg	J	E, E, FD
COBALT	5.73		0.0209	MDL	0.104	PQL	mg/Kg	J	Q, FD, A
COPPER	48.0		0.0834	MDL	0.417	PQL	mg/Kg	J	E, FD, A
LEAD	34.3		0.0106	MDL	0.209	PQL	mg/Kg	J	FD, A
NICKEL	16.3		0.104	MDL	0.417	PQL	mg/Kg	J	E, FD, A
SILVER	0.772		0.0148	MDL	0.104	PQL	mg/Kg	J	Q, E, FD
THALLIUM	0.320		0.0313	MDL	0.104	PQL	mg/Kg	J	Q
ZINC	95.6		0.584	MDL	3.13	PQL	mg/Kg	J	E, FD

Sample ID: SL-113-SA6-SB-4.0-5.0 Collected: 8/26/2011 1:50:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.166	J	0.0585	MDL	0.404	PQL	mg/Kg	J	Z, Q

Sample ID: SL-113-SA6-SB-4.0-5.0 Collected: 8/26/2011 1:50:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.36		0.0504	MDL	0.101	PQL	mg/Kg	J	E, E

Sample ID: SL-113-SA6-SB-4.0-5.0 Collected: 8/26/2011 1:50:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	133		0.107	MDL	0.404	PQL	mg/Kg	J	E, A

Sample ID: SL-113-SA6-SB-4.0-5.0 Collected: 8/26/2011 1:50:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.248		0.0747	MDL	0.202	PQL	mg/Kg	J	E
ARSENIC	5.50		0.0807	MDL	0.404	PQL	mg/Kg	J	A
BERYLLIUM	0.914		0.0161	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.0976	J	0.0444	MDL	0.101	PQL	mg/Kg	J	Z, Q, E

* denotes a non-reportable result

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

11/17/2011 9:14:22 AM

ADR version 1.4.0.111

Data Qualifier Summary

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS								
Method:	6020	Matrix:	SO						

Sample ID: SL-113-SA6-SB-4.0-5.0	Collected: 8/26/2011 1:50:00	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
CHROMIUM	21.8		0.121	MDL	0.404	PQL	mg/Kg	J	E, E
COBALT	6.49		0.0202	MDL	0.101	PQL	mg/Kg	J	Q, A
COPPER	9.26		0.0807	MDL	0.404	PQL	mg/Kg	J	E, A
LEAD	8.94		0.0103	MDL	0.202	PQL	mg/Kg	J	A
NICKEL	15.3		0.101	MDL	0.404	PQL	mg/Kg	J	E, A
SILVER	0.114		0.0143	MDL	0.101	PQL	mg/Kg	J	Q, E
THALLIUM	0.307		0.0303	MDL	0.101	PQL	mg/Kg	J	Q
ZINC	87.6		0.565	MDL	3.03	PQL	mg/Kg	J	E

Sample ID: SL-113-SA6-SB-7.0-8.0	Collected: 8/26/2011 2:15:00	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	0.199	J	0.0611	MDL	0.421	PQL	mg/Kg	J	Z, Q

Sample ID: SL-113-SA6-SB-7.0-8.0	Collected: 8/26/2011 2:15:00	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	1.09		0.0527	MDL	0.105	PQL	mg/Kg	J	E, E

Sample ID: SL-113-SA6-SB-7.0-8.0	Collected: 8/26/2011 2:15:00	Analysis Type: REA4	Dilution: 2
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	96.9		0.112	MDL	0.421	PQL	mg/Kg	J	E, A

Sample ID: SL-113-SA6-SB-7.0-8.0	Collected: 8/26/2011 2:15:00	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	0.508		0.0779	MDL	0.211	PQL	mg/Kg	J	E
ARSENIC	4.27		0.0843	MDL	0.421	PQL	mg/Kg	J	A
BERYLLIUM	0.821		0.0169	MDL	0.105	PQL	mg/Kg	J	Q
CADMIUM	0.0598	J	0.0463	MDL	0.105	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	20.3		0.126	MDL	0.421	PQL	mg/Kg	J	E, E
COBALT	4.33		0.0211	MDL	0.105	PQL	mg/Kg	J	Q, A
COPPER	5.84		0.0843	MDL	0.421	PQL	mg/Kg	J	E, A
LEAD	8.60		0.0107	MDL	0.211	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

11/17/2011 9:14:22 AM

ADR version 1.4.0.111

Data Qualifier Summary

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	6020	Matrix:	SO
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Sample ID: SL-113-SA6-SB-7.0-8.0 Collected: 8/26/2011 2:15:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	11.1		0.105	MDL	0.421	PQL	mg/Kg	J	E, A
SILVER	0.0894	J	0.0150	MDL	0.105	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.266		0.0316	MDL	0.105	PQL	mg/Kg	J	Q
ZINC	68.4		0.590	MDL	3.16	PQL	mg/Kg	J	E

Sample ID: SL-250-SA6-SB-3.0-4.0 Collected: 8/26/2011 10:15:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.279	J	0.0584	MDL	0.403	PQL	mg/Kg	J	Z, Q

Sample ID: SL-250-SA6-SB-3.0-4.0 Collected: 8/26/2011 10:15:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.30		0.0504	MDL	0.101	PQL	mg/Kg	J	E, E

Sample ID: SL-250-SA6-SB-3.0-4.0 Collected: 8/26/2011 10:15:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	104		0.107	MDL	0.403	PQL	mg/Kg	J	E, A

Sample ID: SL-250-SA6-SB-3.0-4.0 Collected: 8/26/2011 10:15:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.178	J	0.0745	MDL	0.201	PQL	mg/Kg	J	Z, E
ARSENIC	13.8		0.0806	MDL	0.403	PQL	mg/Kg	J	A
BERYLLIUM	0.727		0.0161	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.389		0.0443	MDL	0.101	PQL	mg/Kg	J	Q, E
CHROMIUM	18.7		0.121	MDL	0.403	PQL	mg/Kg	J	E, E
COBALT	6.04		0.0201	MDL	0.101	PQL	mg/Kg	J	Q, A
COPPER	18.9		0.0806	MDL	0.403	PQL	mg/Kg	J	E, A
LEAD	28.4		0.0103	MDL	0.201	PQL	mg/Kg	J	A
NICKEL	14.1		0.101	MDL	0.403	PQL	mg/Kg	J	E, A
SILVER	0.0838	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.300		0.0302	MDL	0.101	PQL	mg/Kg	J	Q
ZINC	92.1		0.564	MDL	3.02	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: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	6020	Matrix:	SO
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Sample ID: SL-252-SA6-SB-4.0-5.0 Collected: 8/26/2011 8:49:00 Analysis Type: REA Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	88.0		0.0527	MDL	1.03	PQL	mg/Kg	J	FD, A
ZINC	471		2.89	MDL	15.5	PQL	mg/Kg	J	E, FD

Sample ID: SL-252-SA6-SB-4.0-5.0 Collected: 8/26/2011 8:49:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.207	J	0.0599	MDL	0.413	PQL	mg/Kg	J	Z, Q, FD

Sample ID: SL-252-SA6-SB-4.0-5.0 Collected: 8/26/2011 8:49:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	3.87		0.0517	MDL	0.103	PQL	mg/Kg	J	E, E, FD

Sample ID: SL-252-SA6-SB-4.0-5.0 Collected: 8/26/2011 8:49:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	142		0.110	MDL	0.413	PQL	mg/Kg	J	E, A

Sample ID: SL-252-SA6-SB-4.0-5.0 Collected: 8/26/2011 8:49:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	8.45		0.0764	MDL	0.207	PQL	mg/Kg	J	E, FD
ARSENIC	9.38		0.0826	MDL	0.413	PQL	mg/Kg	J	FD, A
BERYLLIUM	0.825		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CADMIUM	3.54		0.0455	MDL	0.103	PQL	mg/Kg	J	Q, E, FD
CHROMIUM	131		0.124	MDL	0.413	PQL	mg/Kg	J	E, E, FD
COBALT	11.0		0.0207	MDL	0.103	PQL	mg/Kg	J	Q, FD, A
COPPER	96.3		0.0826	MDL	0.413	PQL	mg/Kg	J	E, FD, A
NICKEL	81.4		0.103	MDL	0.413	PQL	mg/Kg	J	E, FD, A
SILVER	2.97		0.0147	MDL	0.103	PQL	mg/Kg	J	Q, E, FD
THALLIUM	0.306		0.0310	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

11/17/2011 9:14:22 AM

ADR version 1.4.0.111

Data Qualifier Summary

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	6020	Matrix:	SO
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Sample ID: SL-256-SA6-SB-2.5-3.5		Collected: 8/26/2011 11:42:00		Analysis Type: REA2		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.200	J	0.0601	MDL	0.414	PQL	mg/Kg	J	Z, Q

Sample ID: SL-256-SA6-SB-2.5-3.5		Collected: 8/26/2011 11:42:00		Analysis Type: REA3		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.16		0.0518	MDL	0.104	PQL	mg/Kg	J	E, E

Sample ID: SL-256-SA6-SB-2.5-3.5		Collected: 8/26/2011 11:42:00		Analysis Type: REA4		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	99.0		0.110	MDL	0.414	PQL	mg/Kg	J	E, A

Sample ID: SL-256-SA6-SB-2.5-3.5		Collected: 8/26/2011 11:42:00		Analysis Type: RES		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.125	J	0.0767	MDL	0.207	PQL	mg/Kg	J	Z, E
ARSENIC	8.07		0.0829	MDL	0.414	PQL	mg/Kg	J	A
BERYLLIUM	0.771		0.0166	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.230		0.0456	MDL	0.104	PQL	mg/Kg	J	Q, E
CHROMIUM	18.4		0.124	MDL	0.414	PQL	mg/Kg	J	E, E
COBALT	5.71		0.0207	MDL	0.104	PQL	mg/Kg	J	Q, A
COPPER	10.2		0.0829	MDL	0.414	PQL	mg/Kg	J	E, A
LEAD	7.51		0.0106	MDL	0.207	PQL	mg/Kg	J	A
NICKEL	12.1		0.104	MDL	0.414	PQL	mg/Kg	J	E, A
SILVER	0.0510	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.339		0.0311	MDL	0.104	PQL	mg/Kg	J	Q
ZINC	152		0.580	MDL	3.11	PQL	mg/Kg	J	E

Sample ID: SL-291-SA6-SB-2.0-3.0		Collected: 8/26/2011 9:35:00		Analysis Type: REA		Dilution: 10			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	433		2.81	MDL	15.1	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

11/17/2011 9:14:23 AM

ADR version 1.4.0.111

Data Qualifier Summary

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-291-SA6-SB-2.0-3.0 Collected: 8/26/2011 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
SELENIUM	0.276	J	0.0582	MDL	0.401	PQL	mg/Kg	J	Z, Q

Sample ID: SL-291-SA6-SB-2.0-3.0 Collected: 8/26/2011 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
MOLYBDENUM	3.29		0.0502	MDL	0.100	PQL	mg/Kg	J	E, E

Sample ID: SL-291-SA6-SB-2.0-3.0 Collected: 8/26/2011 9:35:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	136		0.106	MDL	0.401	PQL	mg/Kg	J	E, A

Sample ID: SL-291-SA6-SB-2.0-3.0 Collected: 8/26/2011 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	1.72		0.0743	MDL	0.201	PQL	mg/Kg	J	E
ARSENIC	10.7		0.0803	MDL	0.401	PQL	mg/Kg	J	A
BERYLLIUM	0.769		0.0161	MDL	0.100	PQL	mg/Kg	J	Q
CADMIUM	1.96		0.0442	MDL	0.100	PQL	mg/Kg	J	Q, E
CHROMIUM	27.5		0.120	MDL	0.401	PQL	mg/Kg	J	E, E
COBALT	9.95		0.0201	MDL	0.100	PQL	mg/Kg	J	Q, A
COPPER	36.6		0.0803	MDL	0.401	PQL	mg/Kg	J	E, A
LEAD	49.1		0.0102	MDL	0.201	PQL	mg/Kg	J	A
NICKEL	21.3		0.100	MDL	0.401	PQL	mg/Kg	J	E, A
SILVER	0.229		0.0142	MDL	0.100	PQL	mg/Kg	J	Q, E
THALLIUM	0.310		0.0301	MDL	0.100	PQL	mg/Kg	J	Q

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: DUP13-SA6-QC-082611 Collected: 8/26/2011 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
HEXAVALENT CHROMIUM	0.21	U	0.21	MDL	1.1	PQL	mg/Kg	UJ	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: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-113-SA6-SB-4.0-5.0	Collected: 8/26/2011 1:50:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.37	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-252-SA6-SB-4.0-5.0	Collected: 8/26/2011 8:49:00	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	0.21	MDL	1.0	PQL	mg/Kg	J	Z, FD

Sample ID: SL-256-SA6-SB-2.5-3.5	Collected: 8/26/2011 11:42:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.30	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: DUP13-SA6-QC-082611	Collected: 8/26/2011 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	0.0679	J	0.0074	MDL	0.105	PQL	mg/Kg	J	Z, FD

Sample ID: SL-113-SA6-SB-4.0-5.0	Collected: 8/26/2011 1:50:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0243	J	0.0072	MDL	0.102	PQL	mg/Kg	U	B

Sample ID: SL-113-SA6-SB-7.0-8.0	Collected: 8/26/2011 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	0.0181	J	0.0074	MDL	0.105	PQL	mg/Kg	U	B

Sample ID: SL-250-SA6-SB-3.0-4.0	Collected: 8/26/2011 10:15:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0730	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: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS									
Method:	7471A			Matrix: SO						

Sample ID: SL-252-SA6-SB-4.0-5.0 Collected: 8/26/2011 8:49:00 Analysis Type: RES Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.863		0.0357	MDL	0.508	PQL	mg/Kg	J	FD

Method Category:	SVOA									
Method:	8015M			Matrix: SO						

Sample ID: DUP13-SA6-QC-082611 Collected: 8/26/2011 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
EFH (C12-C14)	0.42	U	0.42	MDL	1.3	PQL	mg/Kg	UJ	FD
EFH (C15-C20)	0.62	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z, FD
EFH (C21-C30)	8.3		0.42	MDL	1.3	PQL	mg/Kg	J	FD
EFH (C30-C40)	8.4		0.42	MDL	1.3	PQL	mg/Kg	J	FD

Sample ID: SL-252-SA6-SB-4.0-5.0 Collected: 8/26/2011 8:49:00 Analysis Type: REA2 Dilution: 25

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	36		11	MDL	32	PQL	mg/Kg	J	FD
EFH (C15-C20)	350		11	MDL	32	PQL	mg/Kg	J	FD
EFH (C21-C30)	600		11	MDL	32	PQL	mg/Kg	J	FD
EFH (C30-C40)	690		11	MDL	32	PQL	mg/Kg	J	FD

Sample ID: SL-252-SA6-SB-4.0-5.0 Collected: 8/26/2011 8:49:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.3	U	5.3	MDL	11	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.3	U	5.3	MDL	11	PQL	mg/Kg	UJ	Q
Propylene glycol	5.3	U	5.3	MDL	11	PQL	mg/Kg	UJ	Q

Sample ID: SL-256-SA6-SB-2.5-3.5 Collected: 8/26/2011 11:42:00 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)	0.56	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-291-SA6-SB-2.0-3.0 Collected: 8/26/2011 9:35:00 Analysis Type: REA Dilution: 25.25

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.3	J	0.2	MDL	1.0	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: DUP13-SA6-QC-082611 Collected: 8/26/2011 8:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 500

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	9100		180	MDL	900	PQL	ug/Kg	J	FD
AROCLOR 1260	4100		210	MDL	900	PQL	ug/Kg	J	FD
Aroclor 5460	530	U	530	MDL	1800	PQL	ug/Kg	UJ	FD

Sample ID: SL-113-SA6-SB-4.0-5.0 Collected: 8/26/2011 1:50:00 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 1016	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1221	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1232	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1242	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1248	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1254	2.5		0.35	MDL	1.8	PQL	ug/Kg	J	S
AROCLOR 1260	1.2	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z, S
Aroclor 1262	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
Aroclor 1268	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
Aroclor 5432	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	S
Aroclor 5442	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	S
Aroclor 5460	3.3	J	1.0	MDL	3.5	PQL	ug/Kg	J	Z, S

Sample ID: SL-252-SA6-SB-4.0-5.0 Collected: 8/26/2011 8:49:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 100

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1100		35	MDL	180	PQL	ug/Kg	J	FD
AROCLOR 1260	1500		41	MDL	180	PQL	ug/Kg	J	FD
Aroclor 5460	1300		110	MDL	350	PQL	ug/Kg	J	FD

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: DUP13-SA6-QC-082611 Collected: 8/26/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	59	J	17	MDL	350	PQL	ug/Kg	J	Z
Di-n-butylphthalate	76	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-113-SA6-SB-7.0-8.0 Collected: 8/26/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	53	J	18	MDL	350	PQL	ug/Kg	J	Z
FLUORANTHENE	22	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	19	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-252-SA6-SB-4.0-5.0 Collected: 8/26/2011 8:49:00 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	Q
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	350	PQL	ug/Kg	UJ	Q
BENZIDINE	1200	U	1200	MDL	3500	PQL	ug/Kg	R	Q
BENZO(A)ANTHRACENE	23	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	29	J	18	MDL	180	PQL	ug/Kg	J	Z

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

Sample ID: DUP13-SA6-QC-082611 Collected: 8/26/2011 8:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.8	U	1.8	MDL	8.8	PQL	ug/Kg	UJ	FD
BENZO(A)PYRENE	3.5	U	3.5	MDL	8.8	PQL	ug/Kg	UJ	FD
BENZO(B)FLUORANTHENE	3.5	U	3.5	MDL	8.8	PQL	ug/Kg	UJ	FD
BENZO(G,H,I)PERYLENE	4.6	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	3.5	U	3.5	MDL	8.8	PQL	ug/Kg	UJ	FD
CHRYSENE	1.8	U	1.8	MDL	8.8	PQL	ug/Kg	UJ	FD
DIBENZO(A,H)ANTHRACENE	3.5	U	3.5	MDL	8.8	PQL	ug/Kg	UJ	FD
FLUORANTHENE	3.5	U	3.5	MDL	8.8	PQL	ug/Kg	UJ	FD
INDENO(1,2,3-CD)PYRENE	3.5	U	3.5	MDL	8.8	PQL	ug/Kg	UJ	FD
PHENANTHRENE	3.5	U	3.5	MDL	8.8	PQL	ug/Kg	UJ	FD

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

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

Sample ID: DUP13-SA6-QC-082611

Collected: 8/26/2011 8:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	7.5	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z, FD

Sample ID: SL-113-SA6-SB-4.0-5.0

Collected: 8/26/2011 1:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZO(A,H)ANTHRACENE	6.4	J	3.5	MDL	8.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	5.5	J	3.5	MDL	8.7	PQL	ug/Kg	J	Z

Sample ID: SL-113-SA6-SB-7.0-8.0

Collected: 8/26/2011 2:15:00

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	4.5	J	3.5	MDL	8.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	7.2	J	3.5	MDL	8.9	PQL	ug/Kg	J	Z

Sample ID: SL-250-SA6-SB-3.0-4.0

Collected: 8/26/2011 10:15:00

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	5.9	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	52	J	31	MDL	93	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	4.4	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z
PHENANTHRENE	3.9	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z

Sample ID: SL-252-SA6-SB-4.0-5.0

Collected: 8/26/2011 8:49:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	8.9		1.7	MDL	8.7	PQL	ug/Kg	J	FD
BENZO(A)PYRENE	33		3.5	MDL	8.7	PQL	ug/Kg	J	FD
BENZO(B)FLUORANTHENE	70		3.5	MDL	8.7	PQL	ug/Kg	J	FD
BENZO(K)FLUORANTHENE	28		3.5	MDL	8.7	PQL	ug/Kg	J	FD
CHRYSENE	210		1.7	MDL	8.7	PQL	ug/Kg	J	FD
DIBENZO(A,H)ANTHRACENE	4.7	J	3.5	MDL	8.7	PQL	ug/Kg	J	Z, FD
Di-n-butylphthalate	41	J	31	MDL	94	PQL	ug/Kg	J	Z
FLUORANTHENE	51		3.5	MDL	8.7	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	14		3.5	MDL	8.7	PQL	ug/Kg	J	FD
PHENANTHRENE	25		3.5	MDL	8.7	PQL	ug/Kg	J	FD

* denotes a non-reportable result

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

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Data Qualifier Summary

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-252-SA6-SB-4.0-5.0 Collected: 8/26/2011 8:49:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	93		3.5	MDL	8.7	PQL	ug/Kg	J	FD

Sample ID: SL-291-SA6-SB-2.0-3.0 Collected: 8/26/2011 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
ACENAPHTHYLENE	2.4	J	1.7	MDL	8.5	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8315A	Matrix: SO

Sample ID: DUP13-SA6-QC-082611 Collected: 8/26/2011 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
FORMALDEHYDE	1400	J	640	MDL	1600	PQL	ug/Kg	J	Z, FD

Sample ID: SL-252-SA6-SB-4.0-5.0 Collected: 8/26/2011 8:49:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	830	J	630	MDL	1600	PQL	ug/Kg	J	Z, FD

Method Category:	VOA	
Method:	8015B	Matrix: SO

Sample ID: SL-252-SA6-SB-4.0-5.0 Collected: 8/26/2011 8:49:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.6	U	1.6	MDL	3.7	PQL	mg/Kg	R	Q
O-TERPHENYL	1.6	U	1.6	MDL	3.7	PQL	mg/Kg	R	Q
p-Terphenyl	1.6	U	1.6	MDL	3.7	PQL	mg/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: DE233

Laboratory: LL

EDD Filename: DE233_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: DE233

Laboratory: LL

EDD Filename: DE233_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: DE233

Laboratory: LL

EDD Filename: DE233_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

DE233

Method Blank Outlier Report

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P24308BB221257	9/1/2011 12:57:00 PM	CALCIUM IRON MAGNESIUM PHOSPHORUS STRONTIUM TIN	11.0 mg/Kg 2.72 mg/Kg 0.982 mg/Kg 1.33 mg/Kg 0.0530 mg/Kg 1.69 mg/Kg	DUP13-SA6-QC-082611 SL-113-SA6-SB-4.0-5.0 SL-113-SA6-SB-7.0-8.0 SL-250-SA6-SB-3.0-4.0 SL-252-SA6-SB-4.0-5.0 SL-256-SA6-SB-2.5-3.5 SL-291-SA6-SB-2.0-3.0

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
DUP13-SA6-QC-082611(RES)	TIN	2.52 mg/Kg	2.52U mg/Kg
SL-113-SA6-SB-4.0-5.0(RES)	TIN	2.64 mg/Kg	2.64U mg/Kg
SL-113-SA6-SB-7.0-8.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg
SL-250-SA6-SB-3.0-4.0(RES)	TIN	2.46 mg/Kg	2.46U mg/Kg
SL-252-SA6-SB-4.0-5.0(RES)	TIN	3.69 mg/Kg	3.69U mg/Kg
SL-256-SA6-SB-2.5-3.5(RES)	TIN	2.43 mg/Kg	2.43U mg/Kg
SL-291-SA6-SB-2.0-3.0(RES)	TIN	2.73 mg/Kg	2.73U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P24326AB221253A	9/1/2011 12:53:00 PM	VANADIUM	0.0962 mg/Kg	DUP13-SA6-QC-082611 SL-113-SA6-SB-4.0-5.0 SL-113-SA6-SB-7.0-8.0 SL-250-SA6-SB-3.0-4.0 SL-252-SA6-SB-4.0-5.0 SL-256-SA6-SB-2.5-3.5 SL-291-SA6-SB-2.0-3.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: PrepDE233_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-252-SA6-SB-4.0-5.0MS SL-252-SA6-SB-4.0-5.0MSD (DUP13-SA6-QC-082611)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	16 61 -	21 56 59	59.00-109.00 63.00-107.00 63.00-107.00	25 (20.00) - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J (all detects) UJ (all non-detects)
SL-252-SA6-SB-4.0-5.0MS SL-252-SA6-SB-4.0-5.0MSD (DUP13-SA6-QC-082611)	GASOLINE RANGE ORGANICS (127	-	39.00-118.00	44 (30.00)	GASOLINE RANGE ORGANICS	No Qual, Diluted Out

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-252-SA6-SB-4.0-5.0MS SL-252-SA6-SB-4.0-5.0MSD (DUP13-SA6-QC-082611)	AROCLOR 1016 AROCLOR 1260	0 -7890	847 -6761	29.00-146.00 39.00-149.00	200 (50.00) 98 (50.00)	AROCLOR 1016 AROCLOR 1260	No Qual, Diluted Out

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-252-SA6-SB-4.0-5.0MSD (DUP13-SA6-QC-082611)	m-Terphenyl O-TERPHENYL p-Terphenyl	- - -	0 0 0	75.00-125.00 75.00-125.00 75.00-125.00	200 (20.00) 200 (20.00) 200 (20.00)	m-Terphenyl O-TERPHENYL p-Terphenyl	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-252-SA6-SB-4.0-5.0MS SL-252-SA6-SB-4.0-5.0MSD (DUP13-SA6-QC-082611)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	0 -18023 29983 122698 0	0 -25911 -19901 -19047 0	49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00	- 163 (20.00) 153 (20.00) 182 (20.00) -	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	No Qual, Diluted Out

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: PrepDE233_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-252-SA6-SB-4.0-5.0MS SL-252-SA6-SB-4.0-5.0MSD (DUP13-SA6-QC-082611 SL-113-SA6-SB-4.0-5.0 SL-113-SA6-SB-7.0-8.0 SL-250-SA6-SB-3.0-4.0 SL-252-SA6-SB-4.0-5.0 SL-256-SA6-SB-2.5-3.5 SL-291-SA6-SB-2.0-3.0)	ARSENIC BERYLLIUM COBALT LEAD SILVER THALLIUM VANADIUM	297 169 163 250 179 158 189	167 175 164 460 214 159 201	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 COBALT LEAD SILVER THALLIUM VANADIUM	J(all detects) As, Pb, V, No Qual. >4x
SL-252-SA6-SB-4.0-5.0MS SL-252-SA6-SB-4.0-5.0MSD (DUP13-SA6-QC-082611 SL-113-SA6-SB-4.0-5.0 SL-113-SA6-SB-7.0-8.0 SL-250-SA6-SB-3.0-4.0 SL-252-SA6-SB-4.0-5.0 SL-256-SA6-SB-2.5-3.5 SL-291-SA6-SB-2.0-3.0)	ANTIMONY CHROMIUM NICKEL ZINC	71 -527 -161 1155	-126 -690 -265 -830	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	30 (20.00) 27 (20.00) - 42 (20.00)	ANTIMONY CHROMIUM NICKEL ZINC	J(all detects) UJ(all non-detects) Sb, Cr, Ni, Zn, No Qual %R, >4x
SL-252-SA6-SB-4.0-5.0MS SL-252-SA6-SB-4.0-5.0MSD (DUP13-SA6-QC-082611 SL-113-SA6-SB-4.0-5.0 SL-113-SA6-SB-7.0-8.0 SL-250-SA6-SB-3.0-4.0 SL-252-SA6-SB-4.0-5.0 SL-256-SA6-SB-2.5-3.5 SL-291-SA6-SB-2.0-3.0)	CADMIUM COPPER	353 4468	200 200	75.00-125.00 75.00-125.00	24 (20.00) 130 (20.00)	CADMIUM COPPER	J(all detects) UJ(all non-detects) Cu, No Qual %R, >4x
SL-252-SA6-SB-4.0-5.0MS SL-252-SA6-SB-4.0-5.0MSD (DUP13-SA6-QC-082611 SL-113-SA6-SB-4.0-5.0 SL-113-SA6-SB-7.0-8.0 SL-250-SA6-SB-3.0-4.0 SL-252-SA6-SB-4.0-5.0 SL-256-SA6-SB-2.5-3.5 SL-291-SA6-SB-2.0-3.0)	SELENIUM	154	156	75.00-125.00	-	SELENIUM	J(all detects)
SL-252-SA6-SB-4.0-5.0MS SL-252-SA6-SB-4.0-5.0MSD (DUP13-SA6-QC-082611 SL-113-SA6-SB-4.0-5.0 SL-113-SA6-SB-7.0-8.0 SL-250-SA6-SB-3.0-4.0 SL-252-SA6-SB-4.0-5.0 SL-256-SA6-SB-2.5-3.5 SL-291-SA6-SB-2.0-3.0)	MOLYBDENUM	223	162	75.00-125.00	25 (20.00)	MOLYBDENUM	J(all detects) UJ(all non-detects) No Qual %R, >4x
SL-252-SA6-SB-4.0-5.0MS SL-252-SA6-SB-4.0-5.0MSD (DUP13-SA6-QC-082611 SL-113-SA6-SB-4.0-5.0 SL-113-SA6-SB-7.0-8.0 SL-250-SA6-SB-3.0-4.0 SL-252-SA6-SB-4.0-5.0 SL-256-SA6-SB-2.5-3.5 SL-291-SA6-SB-2.0-3.0)	BARIUM	306	-152	75.00-125.00	32 (20.00)	BARIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: PrepDE233_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-252-SA6-SB-4.0-5.0MS SL-252-SA6-SB-4.0-5.0MSD (DUP13-SA6-QC-082611 SL-113-SA6-SB-4.0-5.0 SL-113-SA6-SB-7.0-8.0 SL-250-SA6-SB-3.0-4.0 SL-252-SA6-SB-4.0-5.0 SL-256-SA6-SB-2.5-3.5 SL-291-SA6-SB-2.0-3.0)	ALUMINUM CALCIUM MANGANESE	528 162 160	487 - -	75.00-125.00 75.00-125.00 75.00-125.00	- - -	ALUMINUM CALCIUM MANGANESE	No Qual, >4x
SL-252-SA6-SB-4.0-5.0MS SL-252-SA6-SB-4.0-5.0MSD (DUP13-SA6-QC-082611 SL-113-SA6-SB-4.0-5.0 SL-113-SA6-SB-7.0-8.0 SL-250-SA6-SB-3.0-4.0 SL-252-SA6-SB-4.0-5.0 SL-256-SA6-SB-2.5-3.5 SL-291-SA6-SB-2.0-3.0)	IRON MAGNESIUM	241 8	-839 -74	75.00-125.00 75.00-125.00	- -	IRON MAGNESIUM	No Qual, >4x
SL-252-SA6-SB-4.0-5.0MS SL-252-SA6-SB-4.0-5.0MSD (DUP13-SA6-QC-082611 SL-113-SA6-SB-4.0-5.0 SL-113-SA6-SB-7.0-8.0 SL-250-SA6-SB-3.0-4.0 SL-252-SA6-SB-4.0-5.0 SL-256-SA6-SB-2.5-3.5 SL-291-SA6-SB-2.0-3.0)	PHOSPHORUS	67	46	75.00-125.00	-	PHOSPHORUS	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-252-SA6-SB-4.0-5.0MSD (DUP13-SA6-QC-082611)	2-NITROPHENOL 4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID HEXACHLOROCYCLOPENTADI	- - - -	- - - -	56.00-127.00 11.00-126.00 10.00-173.00 10.00-153.00	38 (30.00) 61 (30.00) 38 (30.00) 83 (30.00)	2-NITROPHENOL 4,6-DINITRO-2-METHYLPHEN BENZOIC ACID HEXACHLOROCYCLOPENTAD	J(all detects)
SL-252-SA6-SB-4.0-5.0MS SL-252-SA6-SB-4.0-5.0MSD (DUP13-SA6-QC-082611)	2,4-DINITROPHENOL BENZIDINE	- 0	0 0	20.00-143.00 35.00-141.00	200 (30.00) -	2,4-DINITROPHENOL BENZIDINE	J(all detects) R(all non-detects)
SL-252-SA6-SB-4.0-5.0MS SL-252-SA6-SB-4.0-5.0MSD (DUP13-SA6-QC-082611)	3,3'-DICHLOROBENZIDINE	19	12	28.00-109.00	49 (30.00)	3,3'-DICHLOROBENZIDINE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: PrepDE233_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-252-SA6-SB-4.0-5.0MS SL-252-SA6-SB-4.0-5.0MSD (DUP13-SA6-QC-082611)	ACENAPHTHENE	-	120	63.00-105.00	-	ACENAPHTHENE	No Qual, Diluted Out
	ANTHRACENE	-	225	73.00-115.00	80 (30.00)	ANTHRACENE	
	BENZO(A)ANTHRACENE	-	1295	59.00-128.00	160 (30.00)	BENZO(A)ANTHRACENE	
	BENZO(A)PYRENE	-	1171	45.00-138.00	152 (30.00)	BENZO(A)PYRENE	
	BENZO(K)FLUORANTHENE	-	782	57.00-153.00	135 (30.00)	BENZO(K)FLUORANTHENE	
	Butylbenzylphthalate	182	187	57.00-173.00	-	Butylbenzylphthalate	
	DIBENZO(A,H)ANTHRACENE	-	146	22.00-133.00	77 (30.00)	DIBENZO(A,H)ANTHRACENE	
	Dimethylphthalate	-	135	74.00-118.00	-	Dimethylphthalate	
	Di-n-octylphthalate	271	241	40.00-192.00	-	Di-n-octylphthalate	
	FLUORANTHENE	-	2650	26.00-166.00	174 (30.00)	FLUORANTHENE	
	INDENO(1,2,3-CD)PYRENE	-	315	21.00-143.00	112 (30.00)	INDENO(1,2,3-CD)PYRENE	
PHENANTHRENE	-	750	12.00-165.00	149 (30.00)	PHENANTHRENE		
SL-252-SA6-SB-4.0-5.0MS SL-252-SA6-SB-4.0-5.0MSD (DUP13-SA6-QC-082611)	BIS(2-ETHYLHEXYL)PHTHALAT	-691	-272	39.00-167.00	116 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	No Qual, Diluted Out
	CHRYSENE	-445	660	48.00-134.00	157 (30.00)	CHRYSENE	
	PYRENE	-80	1915	15.00-153.00	169 (30.00)	PYRENE	
SL-252-SA6-SB-4.0-5.0MS SL-252-SA6-SB-4.0-5.0MSD (DUP13-SA6-QC-082611)	BENZO(B)FLUORANTHENE	39	2242	43.00-155.00	164 (30.00)	BENZO(B)FLUORANTHENE	No Qual, Diluted Out
	BENZO(G,H,I)PERYLENE	13	256	33.00-141.00	128 (30.00)	BENZO(G,H,I)PERYLENE	
	Di-n-butylphthalate	16	52	65.00-148.00	-	Di-n-butylphthalate	

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-252-SA6-SB-4.0-5.0MS SL-252-SA6-SB-4.0-5.0MSD (DUP13-SA6-QC-082611) SL-113-SA6-SB-4.0-5.0 SL-113-SA6-SB-7.0-8.0 SL-250-SA6-SB-3.0-4.0 SL-252-SA6-SB-4.0-5.0 SL-256-SA6-SB-2.5-3.5 SL-291-SA6-SB-2.0-3.0	TITANIUM	141	52	75.00-125.00	-	TITANIUM	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-252-SA6-SB-4.0-5.0DUP (DUP13-SA6-QC-082611 SL -113-SA6-SB-4.0-5.0 SL -113-SA6-SB-7.0-8.0 SL -250-SA6-SB-3.0-4.0 SL -252-SA6-SB-4.0-5.0 SL -256-SA6-SB-2.5-3.5 SL -291-SA6-SB-2.0-3.0)	FLUORIDE Nitrate-NO3	51 42	20.00 20.00	No Qual, OK by Difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-252-SA6-SB-4.0-5.0DUP (DUP13-SA6-QC-082611 SL -113-SA6-SB-4.0-5.0 SL -113-SA6-SB-7.0-8.0 SL -250-SA6-SB-3.0-4.0 SL -252-SA6-SB-4.0-5.0 SL -256-SA6-SB-2.5-3.5 SL -291-SA6-SB-2.0-3.0)	BORON	162	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-252-SA6-SB-4.0-5.0DUP (DUP13-SA6-QC-082611 SL -113-SA6-SB-4.0-5.0 SL -113-SA6-SB-7.0-8.0 SL -250-SA6-SB-3.0-4.0 SL -252-SA6-SB-4.0-5.0 SL -256-SA6-SB-2.5-3.5 SL -291-SA6-SB-2.0-3.0)	CHROMIUM MOLYBDENUM NICKEL SILVER	85 41 61 24	20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects)

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-252-SA6-SB-4.0-5.0DUP (DUP13-SA6-QC-082611 SL -113-SA6-SB-4.0-5.0 SL -113-SA6-SB-7.0-8.0 SL -250-SA6-SB-3.0-4.0 SL -252-SA6-SB-4.0-5.0 SL -256-SA6-SB-2.5-3.5 SL -291-SA6-SB-2.0-3.0)	HEXAVALENT CHROMIUM	93	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: DE233_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
P24308BQ220216 P24308BQ221301 (DUP13 -SA6-QC-082611 SL -113-SA6-SB-4.0-5.0 SL -113-SA6-SB-7.0-8.0 SL -250-SA6-SB-3.0-4.0 SL -252-SA6-SB-4.0-5.0 SL -256-SA6-SB-2.5-3.5 SL -291-SA6-SB-2.0-3.0)	ALUMINUM IRON MAGNESIUM POTASSIUM	152 144 136 129	- - - -	80.00-120.00 80.00-120.00 80.00-120.00 80.00-120.00	- - - -	ALUMINUM IRON MAGNESIUM POTASSIUM	No Qual, SRM within QC Limits
P25008AQ220635 (DUP13 -SA6-QC-082611 SL -113-SA6-SB-4.0-5.0 SL -113-SA6-SB-7.0-8.0 SL -250-SA6-SB-3.0-4.0 SL -252-SA6-SB-4.0-5.0 SL -256-SA6-SB-2.5-3.5 SL -291-SA6-SB-2.0-3.0)	TITANIUM	668.8	-	144.0-667.0	-	TITANIUM	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-250-SA6-SB-3.0-4.0	n-Triacontane-d62	180	19.00-152.00	All Target Analytes	J(all detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-113-SA6-SB-4.0-5.0	TETRACHLORO-M-XYLENE	52	53.00-139.00	All Target Analytes	J (all detects) UJ (all non-detects)
SL-291-SA6-SB-2.0-3.0	DECACHLOROBIPHENYL	131	45.00-120.00	All Target Analytes	No Qual, Diluted Out

Field Duplicate RPD Report

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-252-SA6-SB-4.0-5.0	DUP13-SA6-QC-082611			
MOISTURE	5.1	6.0	16		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-252-SA6-SB-4.0-5.0	DUP13-SA6-QC-082611			
FLUORIDE	1.9	1.9	0	50.00	No Qualifiers Applied
Nitrate-NO3	2.5	4.1	48	50.00	

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-252-SA6-SB-4.0-5.0	DUP13-SA6-QC-082611			
ALUMINUM	13900	10200	31	50.00	No Qualifiers Applied
CALCIUM	3400	2170	44	50.00	
IRON	21500	17800	19	50.00	
LITHIUM	21.8	23.8	9	50.00	
MAGNESIUM	4490	3740	18	50.00	
MANGANESE	267	243	9	50.00	
PHOSPHORUS	476	356	29	50.00	
POTASSIUM	3050	2990	2	50.00	
TIN	3.69	2.52	38	50.00	
TITANIUM	1040	1000	4	50.00	
BORON	0.699	4.34	145	50.00	J(all detects)
SODIUM	177	91.6	64	50.00	
STRONTIUM	25.3	12.6	67	50.00	
Zirconium	2.98	1.41	72	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-252-SA6-SB-4.0-5.0	DUP13-SA6-QC-082611			
BARIUM	142	126	12	50.00	No Qualifiers Applied
BERYLLIUM	0.825	0.616	29	50.00	
THALLIUM	0.306	0.320	4	50.00	
VANADIUM	45.2	37.0	20	50.00	
ANTIMONY	8.45	0.191	191	50.00	J(all detects)
ARSENIC	9.38	4.58	69	50.00	
CADMIUM	3.54	0.384	161	50.00	
CHROMIUM	131	20.1	147	50.00	
COBALT	11.0	5.73	63	50.00	
COPPER	96.3	48.0	67	50.00	
LEAD	88.0	34.3	88	50.00	
MOLYBDENUM	3.87	1.27	101	50.00	
NICKEL	81.4	16.3	133	50.00	
SELENIUM	0.207	0.0920	77	50.00	
SILVER	2.97	0.772	117	50.00	
ZINC	471	95.6	133	50.00	

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: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-252-SA6-SB-4.0-5.0	DUP13-SA6-QC-082611			
HEXAVALENT CHROMIUM	0.64	1.1 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-252-SA6-SB-4.0-5.0	DUP13-SA6-QC-082611			
MERCURY	0.863	0.0679	171	50.00	J(all detects)

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-252-SA6-SB-4.0-5.0	DUP13-SA6-QC-082611			
EFH (C12-C14)	36	1.3 U	200	50.00	J(all detects) UJ(all non-detects)
EFH (C15-C20)	350	0.62	199	50.00	
EFH (C21-C30)	600	8.3	195	50.00	
EFH (C30-C40)	690	8.4	195	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-252-SA6-SB-4.0-5.0	DUP13-SA6-QC-082611			
AROCLOR 1254	1100	9100	157	50.00	J(all detects) UJ(all non-detects)
AROCLOR 1260	1500	4100	93	50.00	
Aroclor 5460	1300	1800 U	200	50.00	

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-252-SA6-SB-4.0-5.0	DUP13-SA6-QC-082611			
ANTHRACENE	8.9	8.8 U	200	50.00	J(all detects) UJ(all non-detects)
BENZO(A)PYRENE	33	8.8 U	200	50.00	
BENZO(B)FLUORANTHENE	70	8.8 U	200	50.00	
BENZO(K)FLUORANTHENE	28	8.8 U	200	50.00	
CHRYSENE	210	8.8 U	200	50.00	
DIBENZO(A,H)ANTHRACENE	4.7	8.8 U	200	50.00	
FLUORANTHENE	51	8.8 U	200	50.00	
INDENO(1,2,3-CD)PYRENE	14	8.8 U	200	50.00	
PHENANTHRENE	25	8.8 U	200	50.00	
PYRENE	93	7.5	170	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

Method: 8315A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-252-SA6-SB-4.0-5.0	DUP13-SA6-QC-082611			
FORMALDEHYDE	830	1400	51	50.00	J(all detects)

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-252-SA6-SB-4.0-5.0	DUP13-SA6-QC-082611			
PH	7.66	7.86	3	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-250-SA6-SB-3.0-4.0	Nitrate-NO3	J	1.4	1.5	PQL	mg/Kg	J (all detects)
SL-256-SA6-SB-2.5-3.5	Nitrate-NO3	J	1.5	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA6-QC-082611	BORON	J	4.34	5.21	PQL	mg/Kg	J (all detects)
	SODIUM	J	91.6	104	PQL	mg/Kg	
	TIN	J	2.52	10.4	PQL	mg/Kg	
	Zirconium	J	1.41	5.21	PQL	mg/Kg	
SL-113-SA6-SB-4.0-5.0	BORON	J	3.89	5.14	PQL	mg/Kg	J (all detects)
	TIN	J	2.64	10.3	PQL	mg/Kg	
	Zirconium	J	1.49	5.14	PQL	mg/Kg	
SL-113-SA6-SB-7.0-8.0	BORON	J	4.22	5.21	PQL	mg/Kg	J (all detects)
	SODIUM	J	87.1	104	PQL	mg/Kg	
	TIN	J	2.69	10.4	PQL	mg/Kg	
	Zirconium	J	1.97	5.21	PQL	mg/Kg	
SL-250-SA6-SB-3.0-4.0	BORON	J	4.57	5.14	PQL	mg/Kg	J (all detects)
	SODIUM	J	102	103	PQL	mg/Kg	
	TIN	J	2.46	10.3	PQL	mg/Kg	
	Zirconium	J	1.81	5.14	PQL	mg/Kg	
SL-252-SA6-SB-4.0-5.0	BORON	J	0.699	5.12	PQL	mg/Kg	J (all detects)
	TIN	J	3.69	10.2	PQL	mg/Kg	
	Zirconium	J	2.98	5.12	PQL	mg/Kg	
SL-256-SA6-SB-2.5-3.5	BORON	J	4.20	5.13	PQL	mg/Kg	J (all detects)
	TIN	J	2.43	10.3	PQL	mg/Kg	
	Zirconium	J	1.26	5.13	PQL	mg/Kg	
SL-291-SA6-SB-2.0-3.0	BORON	J	4.67	5.07	PQL	mg/Kg	J (all detects)
	TIN	J	2.73	10.1	PQL	mg/Kg	
	Zirconium	J	1.57	5.07	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA6-QC-082611	ANTIMONY	J	0.191	0.209	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0920	0.417	PQL	mg/Kg	
SL-113-SA6-SB-4.0-5.0	CADMIUM	J	0.0976	0.101	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.166	0.404	PQL	mg/Kg	
SL-113-SA6-SB-7.0-8.0	CADMIUM	J	0.0598	0.105	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.199	0.421	PQL	mg/Kg	
	SILVER	J	0.0894	0.105	PQL	mg/Kg	
SL-250-SA6-SB-3.0-4.0	ANTIMONY	J	0.178	0.201	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.279	0.403	PQL	mg/Kg	
	SILVER	J	0.0838	0.101	PQL	mg/Kg	
SL-252-SA6-SB-4.0-5.0	SELENIUM	J	0.207	0.413	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-256-SA6-SB-2.5-3.5	ANTIMONY	J	0.125	0.207	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.200	0.414	PQL	mg/Kg	
	SILVER	J	0.0510	0.104	PQL	mg/Kg	
SL-291-SA6-SB-2.0-3.0	SELENIUM	J	0.276	0.401	PQL	mg/Kg	J (all detects)

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-113-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.37	1.0	PQL	mg/Kg	J (all detects)
SL-252-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.64	1.0	PQL	mg/Kg	J (all detects)
SL-256-SA6-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.30	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA6-QC-082611	MERCURY	J	0.0679	0.105	PQL	mg/Kg	J (all detects)
SL-113-SA6-SB-4.0-5.0	MERCURY	J	0.0243	0.102	PQL	mg/Kg	J (all detects)
SL-113-SA6-SB-7.0-8.0	MERCURY	J	0.0181	0.105	PQL	mg/Kg	J (all detects)
SL-250-SA6-SB-3.0-4.0	MERCURY	J	0.0730	0.102	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA6-QC-082611	EFH (C15-C20)	J	0.62	1.3	PQL	mg/Kg	J (all detects)
SL-256-SA6-SB-2.5-3.5	EFH (C21-C30)	J	0.56	1.3	PQL	mg/Kg	J (all detects)
SL-291-SA6-SB-2.0-3.0	GASOLINE RANGE ORGANICS (C5-C12)	J	0.3	1.0	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-113-SA6-SB-4.0-5.0	AROCLOR 1260	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	3.3	3.5	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE233

Laboratory: LL

EDD Filename: DE233_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA6-QC-082611	BIS(2-ETHYLHEXYL)PHTHALATE	J	59	350	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	76	170	PQL	ug/Kg	
SL-113-SA6-SB-7.0-8.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	53	350	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	22	180	PQL	ug/Kg	
	PYRENE	J	19	180	PQL	ug/Kg	
SL-252-SA6-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	23	180	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	29	180	PQL	ug/Kg	

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA6-QC-082611	BENZO(G,H,I)PERYLENE	J	4.6	8.8	PQL	ug/Kg	J (all detects)
	PYRENE	J	7.5	8.8	PQL	ug/Kg	
SL-113-SA6-SB-4.0-5.0	DIBENZO(A,H)ANTHRACENE	J	6.4	8.7	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	5.5	8.7	PQL	ug/Kg	
SL-113-SA6-SB-7.0-8.0	BENZO(A)ANTHRACENE	J	4.5	8.9	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	7.2	8.9	PQL	ug/Kg	
SL-250-SA6-SB-3.0-4.0	BENZO(A)ANTHRACENE	J	5.9	8.6	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	52	93	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	4.4	8.6	PQL	ug/Kg	
	PHENANTHRENE	J	3.9	8.6	PQL	ug/Kg	
SL-252-SA6-SB-4.0-5.0	DIBENZO(A,H)ANTHRACENE	J	4.7	8.7	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	41	94	PQL	ug/Kg	
SL-291-SA6-SB-2.0-3.0	ACENAPHTHYLENE	J	2.4	8.5	PQL	ug/Kg	J (all detects)

Method: 8315A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA6-QC-082611	FORMALDEHYDE	J	1400	1600	PQL	ug/Kg	J (all detects)
SL-252-SA6-SB-4.0-5.0	FORMALDEHYDE	J	830	1600	PQL	ug/Kg	J (all detects)

LDC #: 26533U4
 SDG #: DE233
 Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET
 ADR

Date: 11/7/11
 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, Sb, As, Ba, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Mo, Ni, P.
VII.	Duplicate Sample Analysis	SW	B & TX No find. Ti, V, Zn > 4X, 16.4. 2SR
VIII.	Laboratory Control Samples (LCS)	SW	SRM, Ti 668.8 (144.0 - 669.0)
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	As, Ba, Co, Cu, Pb, Ni J/u J
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-291-SA6-SB-2.0-3.0	11		21		31	
2	SL-250-SA6-SB-3.0-4.0	12		22		32	
3	SL-252-SA6-SB-4.0-5.0	13		23		33	
4	SL-256-SA6-SB-2.5-3.5	14		24		34	
5	SL-113-SA6-SB-4.0-5.0	15		25		35	
6	SL-113-SA6-SB-7.0-8.0	16		26		36	
7	DUP13-SA6-QC-082611	17		27		37	
8	SL-252-SA6-SB-4.0-5.0MS	18		28		38	
9	SL-252-SA6-SB-4.0-5.0MSD	19		29		39	
10	SL-252-SA6-SB-4.0-5.0DUP	20		30		40	

Notes: _____

**VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES**

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Sample Concentration units, unless otherwise noted: mg/Kg

Soil preparation factor applied: 100x; Hg:167
Associated Samples: All Reason: B

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	5	6				
Hg			0.058	0.0484	0.024	0.018				

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.: DE233
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6389710BKG Matrix Spike Lab Sample ID: 6389711MS Matrix Spike Duplicate Lab Sample ID: 6389712MSD
 & Solids for Sample: 94.9
 Batch Id(s): P24308B, P24326A, P24311B, P25008A

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	-	13914.3851		15016.6950		14911.0919		208.6615	204.6099	MG/KG	528	487	1			20P
Antimony	-	8.4465		9.3179		6.8712		1.2277	1.2520	MG/KG	71	-126	30*			20MS
Arsenic	-	9.3804		15.4521		12.8598		2.0461	2.0866	MG/KG	297	167	18			20MS
Barium	-	141.9038		173.2432		126.0316		10.2305	10.4331	MG/KG	306	-152	32*			20MS
Beryllium	9	0.8246		2.2057		2.2890		0.8184	0.8346	MG/KG	169	175	N	4		20MS
Boron		0.6987	B	224.8088		218.5141		208.6615	204.6099	MG/KG	107	106	3			20P
Cadmium	111	3.5393		7.1491		5.6297		1.0230	1.0433	MG/KG	353	200	N	24*		20MS
Calcium	-	3401.7218		4079.3759		3886.3515		417.3231	409.2197	MG/KG	162	118	5			20P
Chromium	-	130.9531		77.0561		58.9260		10.2305	10.4331	MG/KG	-527	-690	27*			20MS
Chromium	52	11.0023		94.4684		96.4225		51.1525	52.1654	MG/KG	163	164	N	2		20MS
Cobalt	59	96.3243		553.4697		117.1426		10.2305	10.4331	MG/KG	4468	200	130*			20MS
Copper	-	21471.1674		21722.9674		20612.8198		104.3308	102.3049	MG/KG	241	-839	5			20P
Iron	-	87.9770		95.6551		102.3798		3.0691	3.1299	MG/KG	250	460	7			20MS
Lead	208	21.7869		128.9476		125.0207		104.3308	102.3049	MG/KG	103	101	3			20P
Lithium	-	4485.3510		4501.7632		4334.1074		208.6615	204.6099	MG/KG	8	-74	4			20P
Magnesium	-	267.3831		351.0063		317.1668		52.1654	51.1525	MG/KG	160	97	10			20P
Manganese	-	0.8634		1.0623		0.9931		0.1713	0.1727	MG/KG	116	75	7			20CV
Mercury	98	3.8658		26.7220		20.7702		10.2305	10.4331	MG/KG	223	162	N	25*		20MS
Molybdenum	60	81.4066		64.9227		53.7095		10.2305	10.4331	MG/KG	-161	-265	19			20MS
Nickel	-	475.5941		545.4131		523.0943		104.3308	102.3049	MG/KG	67	46	4			20P
Phosphorus	-	3051.3632		4182.2909		4123.5005		1043.3077	1023.0493	MG/KG	108	105	1			20P
Potassium	78	0.2066	B	3.3576		3.4575		2.0461	2.0866	MG/KG	154	156	N	3		20MS
Selenium	107	2.9732		21.2590		25.2480		10.2305	10.4331	MG/KG	179	214	N	17		20MS
Silver	-	176.7533		1239.7323		1182.0383		1043.3077	1023.0493	MG/KG	102	98	5			20P
Sodium	-	25.3246		130.8558		126.5819		104.3308	102.3049	MG/KG	101	99	3			20P
Strontium	203	0.3062		0.9508		0.9688		0.4092	0.4173	MG/KG	158	159	N	2		20MS
Thallium	-	3.6891	B	388.1595		376.1681		417.3231	409.2197	MG/KG	92	91	3			20P
Tin	-	1036.3541		1180.9478		1089.5295		102.3049	101.3212	MG/KG	141	52	8			20P
Titanium	-	45.2075		64.5544		66.1666		10.2305	10.4331	MG/KG	189	201	2			20MS
Vanadium	51	470.8775		589.0718		384.2502		10.2305	10.4331	MG/KG	1155	-830	42*			20MS
Zinc	66	2.9842	B	106.7784		103.1080		104.3308	102.3049	MG/KG	99	98	3			20P
Zirconium	72									MG/KG						

METHODS:

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 7
 LABORATORY CONTROL SAMPLE
 SDG No.: DE233
 Matrix: SOIL

Analyte	Mass	Lab Sample ID	Units	True	Found	C	Limit		%R	M	In Spec
Aluminum		P24308BQ	MG/KG	10600.0	16130.7		4400.0	16800.0	152	P	Yes
Antimony	121	P24326AQ	MG/KG	120.0	125.5		12.0	269.0	105	MS	Yes
Arsenic	75	P24326AQ	MG/KG	124.0	127.8		96.7	151.0	103	MS	Yes
Barium	137	P24326AQ	MG/KG	316.0	336.0		252.0	380.0	106	MS	Yes
Beryllium	9	P24326AQ	MG/KG	95.0	105.3		76.1	114.0	111	MS	Yes
Boron		P24308BQ	MG/KG	148.0	165.1		97.8	199.0	112	P	Yes
Cadmium	111	P24326AQ	MG/KG	116.0	122.1		93.6	138.0	105	MS	Yes
Calcium		P24308BQ	MG/KG	10900.0	12168.1		8610.0	13200.0	112	P	Yes
Chromium	52	P24326AQ	MG/KG	95.9	113.2		73.6	118.0	118	MS	Yes
Cobalt	59	P24326AQ	MG/KG	138.0	138.9		111.0	164.0	101	MS	Yes
Copper	63	P24326AQ	MG/KG	82.8	91.5		64.2	101.0	111	MS	Yes
Iron		P24308BQ	MG/KG	18200.0	26236.1		9220.0	27200.0	144	P	Yes
Lead	208	P24326AQ	MG/KG	137.0	143.9		106.0	168.0	105	MS	Yes
Lithium		P24308BQ	UG/L	1000.0	1057.8		800.0	1200.0	106	P	Yes
Magnesium		P24308BQ	MG/KG	3040.0	4121.6		1960.0	4130.0	136	P	Yes
Manganese		P24308BQ	MG/KG	578.0	590.1		449.0	708.0	102	P	Yes
Mercury		P24311BQ	MG/KG	15.2	15.4		10.9	19.5	101	CV	Yes
Molybdenum	98	P24326AQ	MG/KG	88.6	97.2		67.7	109.0	110	MS	Yes
Nickel	60	P24326AQ	MG/KG	121.0	132.6		96.3	145.0	110	MS	Yes
Phosphorus		P24308BQ	UG/L	1000.0	1113.5		800.0	1200.0	111	P	Yes
Potassium		P24308BQ	MG/KG	1870.0	2415.7		1290.0	2450.0	129	P	Yes
Selenium	78	P24326AQ	MG/KG	202.0	224.9		155.0	248.0	111	MS	Yes
Silver	107	P24326AQ	MG/KG	53.5	57.7		35.5	71.6	108	MS	Yes
Sodium		P24308BQ	MG/KG	726.0	861.1		512.0	939.0	119	P	Yes
Strontium		P24308BQ	MG/KG	73.2	79.9		59.2	87.2	109	P	Yes
Thallium	203	P24326AQ	MG/KG	231.0	250.0		174.0	287.0	108	MS	Yes
Tin		P24308BQ	MG/KG	132.0	131.0		98.3	166.0	99	P	Yes
Titanium		P25008AQ	MG/KG	359.0	668.8		144.0	667.0	186	P	No
Vanadium	51	P24326AQ	MG/KG	104.0	122.8		78.6	129.0	118	MS	Yes
Zinc	66	P24326AQ	MG/KG	275.0	293.4		216.0	334.0	107	MS	Yes
Zirconium		P24308BQ	UG/L	1000.0	1056.8		800.0	1200.0	106	P	Yes

JLT
/p

DE233 2544

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
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QUALITY ASSURANCE SUMMARY

FORM 6

DUPLICATES

SDG No.: DE233

Matrix: SOIL

Level (low/med): LOW

Background Lab Sample ID: 6389710BKG

Duplicate Lab Sample ID: 6389713DUP

% Solids for Duplicate: 95.0

% Solids for Sample: 94.9

Batch ID(s): P24308B, P24326A, P24311B, P25008A

Concentration Units: MG/KG

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			13914.3851		16708.1286		18		P
Antimony	121		8.4465		9.6965		14		MS
Arsenic	75		9.3804		8.6934		8		MS
Barium	137		141.9038		148.3456		4		MS
Beryllium	9		0.8246		0.8042		2		MS
Boron		5.1	0.6987	B	6.6438		11		P
Cadmium	111		3.5393		3.9579		11		MS
Calcium			3401.7218		3431.6196		1		P
Chromium	52		130.9531		52.6238		85	*	MS
Cobalt	59		11.0023		10.6934		3		MS
Copper	63		96.3243		90.6006		6		MS
Iron			21471.1674		21857.6934		2		P
Lead	208		87.9770		96.9020		10		MS
Lithium			21.7869		21.6913		0		P
Magnesium			4485.3510		4236.3635		6		P
Manganese			267.3831		312.3151		16		P
Mercury		0.5	0.8634		0.7765		11		CV
Molybdenum	98		3.8658		2.5416		41	*	MS
Nickel	60		81.4066		43.2244		61	*	MS
Phosphorus			475.5941		484.7081		2		P
Potassium			3051.3632		3145.9673		3		P
Selenium	78		0.2066	B	0.2301	B	11		MS
Silver	107		2.9732		3.7935		24	*	MS
Sodium		102.3	176.7533		170.7292		3		P
Strontium			25.3246		24.5522		3		P
Thallium	203	0.1	0.3062		0.3172		4		MS
Tin			3.6891	B	3.5321	B	4		P
Titanium			1036.3541		1017.3268		2		P
Vanadium	51		45.2075		44.6154		1		MS
Zinc	66		470.8775		427.0811		10		MS
Zirconium			2.9842	B	2.9210	B	2		P

Handwritten notes: 11/16/2, OK

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.

DE233 3543

<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

DE234

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
29-Aug-2011	TB-082911	6390969	TB	5030B	8015M	III
29-Aug-2011	SL-255-SA6-SB-2.0-3.0	6390966	N	3050B	6010B	III
29-Aug-2011	SL-255-SA6-SB-2.0-3.0	6390966	N	3050B	6020	III
29-Aug-2011	SL-255-SA6-SB-2.0-3.0	6390966	N	3060A	7199	III
29-Aug-2011	SL-255-SA6-SB-2.0-3.0	6390966	N	3546	1625C	III
29-Aug-2011	SL-255-SA6-SB-2.0-3.0	6390966	N	3550B	8015B	III
29-Aug-2011	SL-255-SA6-SB-2.0-3.0	6390966	N	3550B	8015M	III
29-Aug-2011	SL-255-SA6-SB-2.0-3.0	6390966	N	3550B	8082	III
29-Aug-2011	SL-255-SA6-SB-2.0-3.0	6390966	N	3550B	8270C	III
29-Aug-2011	SL-255-SA6-SB-2.0-3.0	6390966	N	3550B	8270C SIM	III
29-Aug-2011	SL-255-SA6-SB-2.0-3.0	6390966	N	5035	8015M	III
29-Aug-2011	SL-255-SA6-SB-2.0-3.0	6390966	N	8330	8330A	III
29-Aug-2011	SL-255-SA6-SB-2.0-3.0	6390966	N	METHOD	300.0	III
29-Aug-2011	SL-255-SA6-SB-2.0-3.0	6390966	N	METHOD	314.0	III
29-Aug-2011	SL-255-SA6-SB-2.0-3.0	6390966	N	METHOD	7471A	III
29-Aug-2011	SL-255-SA6-SB-2.0-3.0	6390966	N	METHOD	8015B	III
29-Aug-2011	SL-255-SA6-SB-2.0-3.0	6390966	N	METHOD	8015M	III
29-Aug-2011	SL-255-SA6-SB-2.0-3.0	6390966	N	METHOD	8315A	III
29-Aug-2011	SL-255-SA6-SB-2.0-3.0	6390966	N	METHOD	9012B	III
29-Aug-2011	SL-253-SA6-SB-4.0-5.0	6390965	N	3050B	6010B	III
29-Aug-2011	SL-253-SA6-SB-4.0-5.0	6390965	N	3050B	6020	III
29-Aug-2011	SL-253-SA6-SB-4.0-5.0	6390965	N	3060A	7199	III
29-Aug-2011	SL-253-SA6-SB-4.0-5.0	6390965	N	3546	1625C	III
29-Aug-2011	SL-253-SA6-SB-4.0-5.0	6390965	N	3550B	8015B	III
29-Aug-2011	SL-253-SA6-SB-4.0-5.0	6390965	N	3550B	8015M	III
29-Aug-2011	SL-253-SA6-SB-4.0-5.0	6390965	N	3550B	8082	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Aug-2011	SL-253-SA6-SB-4.0-5.0	6390965	N	3550B	8270C	III
29-Aug-2011	SL-253-SA6-SB-4.0-5.0	6390965	N	3550B	8270C SIM	III
29-Aug-2011	SL-253-SA6-SB-4.0-5.0	6390965	N	5035	8015M	III
29-Aug-2011	SL-253-SA6-SB-4.0-5.0	6390965	N	8330	8330A	III
29-Aug-2011	SL-253-SA6-SB-4.0-5.0	6390965	N	METHOD	300.0	III
29-Aug-2011	SL-253-SA6-SB-4.0-5.0	6390965	N	METHOD	314.0	III
29-Aug-2011	SL-253-SA6-SB-4.0-5.0	6390965	N	METHOD	6850	III
29-Aug-2011	SL-253-SA6-SB-4.0-5.0	6390965	N	METHOD	7471A	III
29-Aug-2011	SL-253-SA6-SB-4.0-5.0	6390965	N	METHOD	8015B	III
29-Aug-2011	SL-253-SA6-SB-4.0-5.0	6390965	N	METHOD	8015M	III
29-Aug-2011	SL-253-SA6-SB-4.0-5.0	6390965	N	METHOD	8315A	III
29-Aug-2011	SL-253-SA6-SB-4.0-5.0	6390965	N	METHOD	9012B	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0	6390964	N	3050B	6010B	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0	6390964	N	3050B	6020	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0	6390964	N	3060A	7199	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0	6390964	N	3546	1625C	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0	6390964	N	3550B	8015B	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0	6390964	N	3550B	8015M	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0	6390964	N	3550B	8082	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0	6390964	N	3550B	8270C	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0	6390964	N	3550B	8270C SIM	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0	6390964	N	5035	8015M	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0	6390964	N	8330	8330A	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0	6390964	N	METHOD	300.0	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0	6390964	N	METHOD	314.0	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0	6390964	N	METHOD	7471A	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
29-Aug-2011	SL-249-SA6-SB-4.0-5.0	6390964	N	METHOD	8015B	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0	6390964	N	METHOD	8015M	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0	6390964	N	METHOD	8315A	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0	6390964	N	METHOD	9012B	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0DUP	P390964D271538A	DUP	METHOD	9012B	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0DUP	P390964D271541A	DUP	METHOD	300.0	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0DUP	P390964D271553A	DUP	METHOD	314.0	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0MSD	P390964M242142A	MSD	3550B	8082	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0MSD	P390964M260434	MSD	3550B	8270C	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0MSD	P390964M260947	MSD	3550B	8270C SIM	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0MSD	P390964M320222A	MSD	3550B	8015M	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0MSD	P390964M322049A	MSD	METHOD	8015B	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0MS	P390964R242123A	MS	3550B	8082	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0MS	P390964R260408	MS	3550B	8270C	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0MS	P390964R260913	MS	3550B	8270C SIM	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0MS	P390964R271440A	MS	METHOD	314.0	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0MS	P390964R271540A	MS	METHOD	9012B	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0MS	P390964R271555A	MS	METHOD	300.0	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0MS	P390964R320159A	MS	3550B	8015M	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0MS	P390964R322034A	MS	METHOD	8015B	III
29-Aug-2011	SL-192-SA6-SB-4.0-5.0	6390967	N	3050B	6010B	III
29-Aug-2011	SL-192-SA6-SB-4.0-5.0	6390967	N	3050B	6020	III
29-Aug-2011	SL-192-SA6-SB-4.0-5.0	6390967	N	3060A	7199	III
29-Aug-2011	SL-192-SA6-SB-4.0-5.0	6390967	N	3546	1625C	III
29-Aug-2011	SL-192-SA6-SB-4.0-5.0	6390967	N	3550B	8015B	III
29-Aug-2011	SL-192-SA6-SB-4.0-5.0	6390967	N	3550B	8015M	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
29-Aug-2011	SL-192-SA6-SB-4.0-5.0	6390967	N	3550B	8082	III
29-Aug-2011	SL-192-SA6-SB-4.0-5.0	6390967	N	3550B	8270C	III
29-Aug-2011	SL-192-SA6-SB-4.0-5.0	6390967	N	3550B	8270C SIM	III
29-Aug-2011	SL-192-SA6-SB-4.0-5.0	6390967	N	5035	8015M	III
29-Aug-2011	SL-192-SA6-SB-4.0-5.0	6390967	N	8330	8330A	III
29-Aug-2011	SL-192-SA6-SB-4.0-5.0	6390967	N	METHOD	300.0	III
29-Aug-2011	SL-192-SA6-SB-4.0-5.0	6390967	N	METHOD	314.0	III
29-Aug-2011	SL-192-SA6-SB-4.0-5.0	6390967	N	METHOD	7471A	III
29-Aug-2011	SL-192-SA6-SB-4.0-5.0	6390967	N	METHOD	8015B	III
29-Aug-2011	SL-192-SA6-SB-4.0-5.0	6390967	N	METHOD	8015M	III
29-Aug-2011	SL-192-SA6-SB-4.0-5.0	6390967	N	METHOD	8315A	III
29-Aug-2011	SL-192-SA6-SB-4.0-5.0	6390967	N	METHOD	9012B	III
29-Aug-2011	SL-192-SA6-SB-9.0-10.0	6390968	N	3050B	6010B	III
29-Aug-2011	SL-192-SA6-SB-9.0-10.0	6390968	N	3050B	6020	III
29-Aug-2011	SL-192-SA6-SB-9.0-10.0	6390968	N	3060A	7199	III
29-Aug-2011	SL-192-SA6-SB-9.0-10.0	6390968	N	3546	1625C	III
29-Aug-2011	SL-192-SA6-SB-9.0-10.0	6390968	N	3550B	8015B	III
29-Aug-2011	SL-192-SA6-SB-9.0-10.0	6390968	N	3550B	8015M	III
29-Aug-2011	SL-192-SA6-SB-9.0-10.0	6390968	N	3550B	8082	III
29-Aug-2011	SL-192-SA6-SB-9.0-10.0	6390968	N	3550B	8270C	III
29-Aug-2011	SL-192-SA6-SB-9.0-10.0	6390968	N	3550B	8270C SIM	III
29-Aug-2011	SL-192-SA6-SB-9.0-10.0	6390968	N	5035	8015M	III
29-Aug-2011	SL-192-SA6-SB-9.0-10.0	6390968	N	8330	8330A	III
29-Aug-2011	SL-192-SA6-SB-9.0-10.0	6390968	N	METHOD	300.0	III
29-Aug-2011	SL-192-SA6-SB-9.0-10.0	6390968	N	METHOD	314.0	III
29-Aug-2011	SL-192-SA6-SB-9.0-10.0	6390968	N	METHOD	7471A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Aug-2011	SL-192-SA6-SB-9.0-10.0	6390968	N	METHOD	8015B	III
29-Aug-2011	SL-192-SA6-SB-9.0-10.0	6390968	N	METHOD	8015M	III
29-Aug-2011	SL-192-SA6-SB-9.0-10.0	6390968	N	METHOD	8315A	III
29-Aug-2011	SL-192-SA6-SB-9.0-10.0	6390968	N	METHOD	9012B	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE234

Laboratory: LL

EDD Filename: DE234_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-192-SA6-SB-4.0-5.0 Collected: 8/29/2011 2:23:00 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		0.84	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.0	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-192-SA6-SB-9.0-10.0 Collected: 8/29/2011 2:33:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.87	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.2	J	0.87	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-249-SA6-SB-4.0-5.0 Collected: 8/29/2011 11:23:00 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		0.86	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.0	J	0.86	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-253-SA6-SB-4.0-5.0 Collected: 8/29/2011 10:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.1		0.84	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	0.89	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-255-SA6-SB-2.0-3.0 Collected: 8/29/2011 8:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	20.1		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-192-SA6-SB-4.0-5.0 Collected: 8/29/2011 2:23:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.55	J	0.330	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.43	J	0.474	MDL	5.15	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

1/5/2012 9:10:43 AM

ADR version 1.4.0.111

Data Qualifier Summary

Lab Reporting Batch ID: DE234

Laboratory: LL

EDD Filename: DE234_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-192-SA6-SB-9.0-10.0 Collected: 8/29/2011 2:33:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.65	J	0.339	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	0.577	J	0.487	MDL	5.29	PQL	mg/Kg	J	Z

Sample ID: SL-249-SA6-SB-4.0-5.0 Collected: 8/29/2011 11:23:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.37	J	0.369	MDL	5.13	PQL	mg/Kg	J	Z

Sample ID: SL-249-SA6-SB-4.0-5.0 Collected: 8/29/2011 11:23:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	62.4	J	6.10	MDL	103	PQL	mg/Kg	J	Z
TIN	2.39	J	0.328	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.75	J	0.472	MDL	5.13	PQL	mg/Kg	J	Z

Sample ID: SL-253-SA6-SB-4.0-5.0 Collected: 8/29/2011 10:10:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.97	J	0.366	MDL	5.09	PQL	mg/Kg	J	Z

Sample ID: SL-253-SA6-SB-4.0-5.0 Collected: 8/29/2011 10:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	69.8	J	6.05	MDL	102	PQL	mg/Kg	J	Z
TIN	2.46	J	0.325	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.38	J	0.468	MDL	5.09	PQL	mg/Kg	J	Z

Sample ID: SL-255-SA6-SB-2.0-3.0 Collected: 8/29/2011 8:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.31	J	0.347	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.04	J	0.499	MDL	5.42	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

1/5/2012 9:10:43 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE234

Laboratory: LL

EDD Filename: DE234_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-192-SA6-SB-4.0-5.0			Collected: 8/29/2011 2:23:00			Analysis Type: REA			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
SELENIUM	0.120	J	0.0615	MDL	0.424	PQL	mg/Kg	J	Z, Q	

Sample ID: SL-192-SA6-SB-4.0-5.0			Collected: 8/29/2011 2:23:00			Analysis Type: REA2			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
MOLYBDENUM	1.25		0.0531	MDL	0.106	PQL	mg/Kg	J	E, Q, E	

Sample ID: SL-192-SA6-SB-4.0-5.0			Collected: 8/29/2011 2:23:00			Analysis Type: REA3			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
BARIUM	136		0.112	MDL	0.424	PQL	mg/Kg	J	E, A	

Sample ID: SL-192-SA6-SB-4.0-5.0			Collected: 8/29/2011 2:23:00			Analysis Type: RES			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
ANTIMONY	0.158	J	0.0785	MDL	0.212	PQL	mg/Kg	J	Z, E	
ARSENIC	7.02		0.0849	MDL	0.424	PQL	mg/Kg	J	A	
BERYLLIUM	1.05		0.0170	MDL	0.106	PQL	mg/Kg	J	Q	
CADMIUM	0.125		0.0467	MDL	0.106	PQL	mg/Kg	J	Q, E	
CHROMIUM	22.7		0.127	MDL	0.424	PQL	mg/Kg	J	E, E	
COBALT	8.12		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, A	
COPPER	10.2		0.0849	MDL	0.424	PQL	mg/Kg	J	E, A	
LEAD	11.0		0.0108	MDL	0.212	PQL	mg/Kg	J	A	
NICKEL	14.7		0.106	MDL	0.424	PQL	mg/Kg	J	E, A	
SILVER	0.0782	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z, Q, E	
THALLIUM	0.405		0.0318	MDL	0.106	PQL	mg/Kg	J	Q	
ZINC	78.3		0.594	MDL	3.18	PQL	mg/Kg	J	E	

Sample ID: SL-192-SA6-SB-9.0-10.0			Collected: 8/29/2011 2:33:00			Analysis Type: REA			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
SELENIUM	0.107	J	0.0614	MDL	0.424	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

1/5/2012 9:10:43 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE234

Laboratory: LL

EDD Filename: DE234_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-192-SA6-SB-9.0-10.0		Collected: 8/29/2011 2:33:00		Analysis Type: REA2		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.03		0.0529	MDL	0.106	PQL	mg/Kg	J	E, Q, E

Sample ID: SL-192-SA6-SB-9.0-10.0		Collected: 8/29/2011 2:33:00		Analysis Type: REA3		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	87.7		0.112	MDL	0.424	PQL	mg/Kg	J	E, A

Sample ID: SL-192-SA6-SB-9.0-10.0		Collected: 8/29/2011 2:33:00		Analysis Type: RES		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.105	J	0.0784	MDL	0.212	PQL	mg/Kg	J	Z, E
ARSENIC	4.71		0.0847	MDL	0.424	PQL	mg/Kg	J	A
BERYLLIUM	0.645		0.0169	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.0950	J	0.0466	MDL	0.106	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	23.7		0.127	MDL	0.424	PQL	mg/Kg	J	E, E
COBALT	5.14		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, A
COPPER	37.2		0.0847	MDL	0.424	PQL	mg/Kg	J	E, A
LEAD	47.5		0.0108	MDL	0.212	PQL	mg/Kg	J	A
NICKEL	29.6		0.106	MDL	0.424	PQL	mg/Kg	J	E, A
SILVER	0.0408	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.231		0.0318	MDL	0.106	PQL	mg/Kg	J	Q
ZINC	84.8		0.593	MDL	3.18	PQL	mg/Kg	J	E

Sample ID: SL-249-SA6-SB-4.0-5.0		Collected: 8/29/2011 11:23:00		Analysis Type: REA2		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.428		0.0513	MDL	0.103	PQL	mg/Kg	J	E, Q, E

Sample ID: SL-249-SA6-SB-4.0-5.0		Collected: 8/29/2011 11:23:00		Analysis Type: REA3		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	82.1		0.109	MDL	0.410	PQL	mg/Kg	J	E, 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: DE234

Laboratory: LL

EDD Filename: DE234_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-249-SA6-SB-4.0-5.0 Collected: 8/29/2011 11:23:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0759	U	0.0759	MDL	0.205	PQL	mg/Kg	UJ	E
ARSENIC	2.64		0.0820	MDL	0.410	PQL	mg/Kg	J	A
BERYLLIUM	0.435		0.0164	MDL	0.103	PQL	mg/Kg	J	Q
CADMIUM	0.108		0.0451	MDL	0.103	PQL	mg/Kg	J	Q, E
CHROMIUM	10.6		0.123	MDL	0.410	PQL	mg/Kg	J	E, E
COBALT	4.31		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, A
COPPER	5.96		0.0820	MDL	0.410	PQL	mg/Kg	J	E, A
LEAD	5.36		0.0105	MDL	0.205	PQL	mg/Kg	J	A
NICKEL	7.08		0.103	MDL	0.410	PQL	mg/Kg	J	E, A
SILVER	0.0350	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.215		0.0308	MDL	0.103	PQL	mg/Kg	J	Q
ZINC	63.6		0.574	MDL	3.08	PQL	mg/Kg	J	E

Sample ID: SL-253-SA6-SB-4.0-5.0 Collected: 8/29/2011 10:10:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.196	J	0.0596	MDL	0.411	PQL	mg/Kg	J	Z, Q

Sample ID: SL-253-SA6-SB-4.0-5.0 Collected: 8/29/2011 10:10:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.48		0.0514	MDL	0.103	PQL	mg/Kg	J	E, Q, E

Sample ID: SL-253-SA6-SB-4.0-5.0 Collected: 8/29/2011 10:10:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	103		0.109	MDL	0.411	PQL	mg/Kg	J	E, A

Sample ID: SL-253-SA6-SB-4.0-5.0 Collected: 8/29/2011 10:10:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.164	J	0.0760	MDL	0.205	PQL	mg/Kg	J	Z, E
ARSENIC	9.89		0.0822	MDL	0.411	PQL	mg/Kg	J	A
BERYLLIUM	0.840		0.0164	MDL	0.103	PQL	mg/Kg	J	Q
CADMIUM	0.412		0.0452	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: DE234

Laboratory: LL

EDD Filename: DE234_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	6020	Matrix:	SO
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Sample ID: SL-253-SA6-SB-4.0-5.0 Collected: 8/29/2011 10:10:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	22.2		0.123	MDL	0.411	PQL	mg/Kg	J	E, E
COBALT	7.38		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, A
COPPER	14.8		0.0822	MDL	0.411	PQL	mg/Kg	J	E, A
LEAD	74.8		0.0105	MDL	0.205	PQL	mg/Kg	J	A
NICKEL	18.6		0.103	MDL	0.411	PQL	mg/Kg	J	E, A
SILVER	0.0757	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.380		0.0308	MDL	0.103	PQL	mg/Kg	J	Q
ZINC	82.8		0.575	MDL	3.08	PQL	mg/Kg	J	E

Sample ID: SL-255-SA6-SB-2.0-3.0 Collected: 8/29/2011 8:45:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.117	J	0.0617	MDL	0.425	PQL	mg/Kg	J	Z, Q

Sample ID: SL-255-SA6-SB-2.0-3.0 Collected: 8/29/2011 8:45:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.588		0.0532	MDL	0.106	PQL	mg/Kg	J	E, Q, E

Sample ID: SL-255-SA6-SB-2.0-3.0 Collected: 8/29/2011 8:45:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIIUM	91.9		0.113	MDL	0.425	PQL	mg/Kg	J	E, A

Sample ID: SL-255-SA6-SB-2.0-3.0 Collected: 8/29/2011 8:45:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.129	J	0.0787	MDL	0.213	PQL	mg/Kg	J	Z, E
ARSENIC	5.59		0.0851	MDL	0.425	PQL	mg/Kg	J	A
BERYLLIUM	1.17		0.0170	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.0468	U	0.0468	MDL	0.106	PQL	mg/Kg	UJ	E
CHROMIUM	21.3		0.128	MDL	0.425	PQL	mg/Kg	J	E, E
COBALT	5.76		0.0213	MDL	0.106	PQL	mg/Kg	J	Q, A
COPPER	7.59		0.0851	MDL	0.425	PQL	mg/Kg	J	E, A
LEAD	9.87		0.0108	MDL	0.213	PQL	mg/Kg	J	A

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE234

Laboratory: LL

EDD Filename: DE234_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-255-SA6-SB-2.0-3.0 Collected: 8/29/2011 8:45:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	11.7		0.106	MDL	0.425	PQL	mg/Kg	J	E, A
SILVER	0.124		0.0151	MDL	0.106	PQL	mg/Kg	J	Q, E
THALLIUM	0.426		0.0319	MDL	0.106	PQL	mg/Kg	J	Q
ZINC	81.2		0.595	MDL	3.19	PQL	mg/Kg	J	E

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-192-SA6-SB-4.0-5.0 Collected: 8/29/2011 2:23:00 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	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-192-SA6-SB-9.0-10.0 Collected: 8/29/2011 2:33:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.77	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-249-SA6-SB-4.0-5.0 Collected: 8/29/2011 11:23:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.31	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-253-SA6-SB-4.0-5.0 Collected: 8/29/2011 10:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-255-SA6-SB-2.0-3.0 Collected: 8/29/2011 8:45:00 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	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE234

Laboratory: LL

EDD Filename: DE234_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-192-SA6-SB-4.0-5.0	Collected: 8/29/2011 2:23:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0311	J	0.0071	MDL	0.101	PQL	mg/Kg	U	B

Sample ID: SL-192-SA6-SB-9.0-10.0	Collected: 8/29/2011 2:33:00	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	0.0074	MDL	0.105	PQL	mg/Kg	U	B

Sample ID: SL-253-SA6-SB-4.0-5.0	Collected: 8/29/2011 10:10:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0548	J	0.0069	MDL	0.0978	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	6850	Matrix: SO

Sample ID: SL-253-SA6-SB-4.0-5.0	Collected: 8/29/2011 10:10:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	5.0	J	2.2	MDL	5.2	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-192-SA6-SB-4.0-5.0	Collected: 8/29/2011 2:23:00	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)	0.53	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-249-SA6-SB-4.0-5.0	Collected: 8/29/2011 11:23:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.3	U	5.3	MDL	11	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.3	U	5.3	MDL	11	PQL	mg/Kg	UJ	Q
Propylene glycol	5.3	U	5.3	MDL	11	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: DE234

Laboratory: LL

EDD Filename: DE234_v2.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-255-SA6-SB-2.0-3.0 Collected: 8/29/2011 8:45:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	1.2	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-255-SA6-SB-2.0-3.0 Collected: 8/29/2011 8:45:00 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	0.54	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-253-SA6-SB-4.0-5.0 Collected: 8/29/2011 10:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	17	J	17	MDL	170	PQL	ug/Kg	J	Z

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

Sample ID: SL-192-SA6-SB-4.0-5.0 Collected: 8/29/2011 2:23:00 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	0.81	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.78	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z, L
BENZO(B)FLUORANTHENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z, L
BENZO(K)FLUORANTHENE	0.78	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.0	J	6.4	MDL	19	PQL	ug/Kg	J	Z, L
CHRYSENE	1.1	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	20		6.4	MDL	19	PQL	ug/Kg	J	L
FLUORANTHENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.81	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE234

Laboratory: LL

EDD Filename: DE234_v2.

eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-192-SA6-SB-4.0-5.0 Collected: 8/29/2011 2:23:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	1.4	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-192-SA6-SB-9.0-10.0 Collected: 8/29/2011 2:33:00 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	0.71	MDL	1.8	PQL	ug/Kg	J	Z, L
CHRYSENE	0.75	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-253-SA6-SB-4.0-5.0 Collected: 8/29/2011 10:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.46	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	4.6		0.69	MDL	1.7	PQL	ug/Kg	J	L
BENZO(B)FLUORANTHENE	10		0.69	MDL	1.7	PQL	ug/Kg	J	L
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	6.2	MDL	19	PQL	ug/Kg	J	Z, L
DIBENZO(A,H)ANTHRACENE	0.93	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.9		0.69	MDL	1.7	PQL	ug/Kg	J	L

Sample ID: SL-255-SA6-SB-2.0-3.0 Collected: 8/29/2011 8:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.98	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	1.2	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	0.78	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: DE234

Laboratory: LL

EDD Filename: DE234_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: DE234

Laboratory: LL

EDD Filename: DE234_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: DE234

Laboratory: LL

EDD Filename: DE234_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

1/5/2012 9:10:43 AM

ADR version 1.4.0.111

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE234

Method Blank Outlier Report

Lab Reporting Batch ID: DE234

Laboratory: LL

EDD Filename: DE234_v2.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P24308BB221257	9/1/2011 12:57:00 PM	CALCIUM IRON MAGNESIUM PHOSPHORUS STRONTIUM TIN	11.0 mg/Kg 2.72 mg/Kg 0.982 mg/Kg 1.33 mg/Kg 0.0530 mg/Kg 1.69 mg/Kg	SL-192-SA6-SB-4.0-5.0 SL-192-SA6-SB-9.0-10.0 SL-249-SA6-SB-4.0-5.0 SL-253-SA6-SB-4.0-5.0 SL-255-SA6-SB-2.0-3.0

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-192-SA6-SB-4.0-5.0(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-192-SA6-SB-9.0-10.0(RES)	TIN	3.65 mg/Kg	3.65U mg/Kg
SL-249-SA6-SB-4.0-5.0(RES)	TIN	2.39 mg/Kg	2.39U mg/Kg
SL-253-SA6-SB-4.0-5.0(RES)	TIN	2.46 mg/Kg	2.46U mg/Kg
SL-255-SA6-SB-2.0-3.0(RES)	TIN	3.31 mg/Kg	3.31U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P24326AB221253A	9/1/2011 12:53:00 PM	VANADIUM	0.0962 mg/Kg	SL-192-SA6-SB-4.0-5.0 SL-192-SA6-SB-9.0-10.0 SL-249-SA6-SB-4.0-5.0 SL-253-SA6-SB-4.0-5.0 SL-255-SA6-SB-2.0-3.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE234

Laboratory: LL

EDD Filename: DE234_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-249-SA6-SB-4.0-5.0MS SL-249-SA6-SB-4.0-5.0MSD (SL-249-SA6-SB-4.0-5.0)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	23 - -	24 56 57	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)
SL-249-SA6-SB-4.0-5.0MS SL-249-SA6-SB-4.0-5.0MSD (SL-249-SA6-SB-4.0-5.0)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	0 0 -57327 -75422 0	0 0 -51441 -90567 0	49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00	- - 21 (20.00) - -	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	No Qual Diluted Out

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-249-SA6-SB-4.0-5.0MS (SL-192-SA6-SB-4.0-5.0 SL-192-SA6-SB-9.0-10.0 SL-249-SA6-SB-4.0-5.0 SL-253-SA6-SB-4.0-5.0 SL-255-SA6-SB-2.0-3.0)	FLUORIDE	72	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-249-SA6-SB-4.0-5.0MS SL-249-SA6-SB-4.0-5.0MSD (SL-249-SA6-SB-4.0-5.0)	ACENAPHTHENE ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BIS(2-ETHYLHEXYL)PHTHALAT DIBENZO(A,H)ANTHRACENE Dimethylphthalate Di-n-butylphthalate	114 118 144 161 - 137 129 153	117 118 145 159 183 135 129 151	63.00-105.00 73.00-115.00 58.00-142.00 43.00-155.00 39.00-167.00 22.00-133.00 74.00-118.00 65.00-148.00	- - - - - - - -	ACENAPHTHENE ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BIS(2-ETHYLHEXYL)PHTHALA DIBENZO(A,H)ANTHRACENE Dimethylphthalate Di-n-butylphthalate	J(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE234

Laboratory: LL

EDD Filename: DE234_v2.

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-249-SA6-SB-4.0-5.0DUP (SL-192-SA6-SB-4.0-5.0 SL -192-SA6-SB-9.0-10.0 SL -249-SA6-SB-4.0-5.0 SL -253-SA6-SB-4.0-5.0 SL -255-SA6-SB-2.0-3.0)	FLUORIDE	39	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE234

Laboratory: LL

EDD Filename: DE234_v2.

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
P24308BQ220216 P24308BQ221301 (SL -192-SA6-SB-4.0-5.0 SL -192-SA6-SB-9.0-10.0 SL -249-SA6-SB-4.0-5.0 SL -253-SA6-SB-4.0-5.0 SL -255-SA6-SB-2.0-3.0)	ALUMINUM IRON MAGNESIUM POTASSIUM	152 144 136 129	- - - -	80.00-120.00 80.00-120.00 80.00-120.00 80.00-120.00	- - - -	ALUMINUM IRON MAGNESIUM POTASSIUM	No Qual, SRM within QC Limits
P25008AQ220635 (SL -192-SA6-SB-4.0-5.0 SL -192-SA6-SB-9.0-10.0 SL -249-SA6-SB-4.0-5.0 SL -253-SA6-SB-4.0-5.0 SL -255-SA6-SB-2.0-3.0)	TITANIUM	186	-	80.00-120.00	-	TITANIUM	No Qual, SRM within QC Limits

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P1LLCSQ260806 (SL -192-SA6-SB-4.0-5.0 SL -192-SA6-SB-9.0-10.0 SL -249-SA6-SB-4.0-5.0 SL -253-SA6-SB-4.0-5.0 SL -255-SA6-SB-2.0-3.0)	BENZO(A)PYRENE BENZO(B)FLUORANTHENE BIS(2-ETHYLHEXYL)PHTHALAT Butylbenzylphthalate Di-n-butylphthalate Di-n-octylphthalate INDENO(1,2,3-CD)PYRENE	132 162 148 132 138 167 135	- - - - - - -	58.00-129.00 63.00-143.00 67.00-143.00 65.00-131.00 75.00-137.00 68.00-162.00 56.00-134.00	- - - - - - -	BENZO(A)PYRENE BENZO(B)FLUORANTHENE BIS(2-ETHYLHEXYL)PHTHALA Butylbenzylphthalate Di-n-butylphthalate Di-n-octylphthalate INDENO(1,2,3-CD)PYRENE	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE234

Laboratory: LL

EDD Filename: DE234_v2.

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-192-SA6-SB-4.0-5.0	Nitrate-NO3	J	1.0	1.6	PQL	mg/Kg	J (all detects)
SL-192-SA6-SB-9.0-10.0	Nitrate-NO3	J	1.2	1.6	PQL	mg/Kg	J (all detects)
SL-249-SA6-SB-4.0-5.0	Nitrate-NO3	J	1.0	1.6	PQL	mg/Kg	J (all detects)
SL-253-SA6-SB-4.0-5.0	Nitrate-NO3	J	0.89	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-192-SA6-SB-4.0-5.0	TIN	J	2.55	10.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.43	5.15	PQL	mg/Kg	
SL-192-SA6-SB-9.0-10.0	TIN	J	3.65	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.577	5.29	PQL	mg/Kg	
SL-249-SA6-SB-4.0-5.0	BORON	J	4.37	5.13	PQL	mg/Kg	J (all detects)
	SODIUM	J	62.4	103	PQL	mg/Kg	
	TIN	J	2.39	10.3	PQL	mg/Kg	
	Zirconium	J	1.75	5.13	PQL	mg/Kg	
SL-253-SA6-SB-4.0-5.0	BORON	J	3.97	5.09	PQL	mg/Kg	J (all detects)
	SODIUM	J	69.8	102	PQL	mg/Kg	
	TIN	J	2.46	10.2	PQL	mg/Kg	
	Zirconium	J	1.38	5.09	PQL	mg/Kg	
SL-255-SA6-SB-2.0-3.0	TIN	J	3.31	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.04	5.42	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-192-SA6-SB-4.0-5.0	ANTIMONY	J	0.158	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.120	0.424	PQL	mg/Kg	
	SILVER	J	0.0782	0.106	PQL	mg/Kg	
SL-192-SA6-SB-9.0-10.0	ANTIMONY	J	0.105	0.212	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0950	0.106	PQL	mg/Kg	
	SELENIUM	J	0.107	0.424	PQL	mg/Kg	
	SILVER	J	0.0408	0.106	PQL	mg/Kg	
SL-249-SA6-SB-4.0-5.0	SILVER	J	0.0350	0.103	PQL	mg/Kg	J (all detects)
SL-253-SA6-SB-4.0-5.0	ANTIMONY	J	0.164	0.205	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.196	0.411	PQL	mg/Kg	
	SILVER	J	0.0757	0.103	PQL	mg/Kg	
SL-255-SA6-SB-2.0-3.0	ANTIMONY	J	0.129	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.117	0.425	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE234

Laboratory: LL

EDD Filename: DE234_v2.

eQAPP Name: CDM_SSFL_110509

Method: 6850

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-253-SA6-SB-4.0-5.0	PERCHLORATE	J	5.0	5.2	PQL	ug/Kg	J (all detects)

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-192-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.37	1.1	PQL	mg/Kg	J (all detects)
SL-192-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.77	1.1	PQL	mg/Kg	J (all detects)
SL-249-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.31	1.1	PQL	mg/Kg	J (all detects)
SL-253-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.40	1.0	PQL	mg/Kg	J (all detects)
SL-255-SA6-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.35	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-192-SA6-SB-4.0-5.0	MERCURY	J	0.0311	0.101	PQL	mg/Kg	J (all detects)
SL-192-SA6-SB-9.0-10.0	MERCURY	J	0.0130	0.105	PQL	mg/Kg	J (all detects)
SL-253-SA6-SB-4.0-5.0	MERCURY	J	0.0548	0.0978	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-192-SA6-SB-4.0-5.0	EFH (C15-C20)	J	0.53	1.3	PQL	mg/Kg	J (all detects)
SL-255-SA6-SB-2.0-3.0	EFH (C30-C40)	J	1.2	1.3	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-255-SA6-SB-2.0-3.0	AROCLOR 1254	J	0.54	1.8	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE234

Laboratory: LL

EDD Filename: DE234_v2.

eQAPP Name: CDM_SSFL_110509

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-253-SA6-SB-4.0-5.0	CHRYSENE	J	18	170	PQL	ug/Kg	J (all detects)
	PYRENE	J	17	170	PQL	ug/Kg	

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-192-SA6-SB-4.0-5.0	ACENAPHTHYLENE	J	0.81	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.78	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.78	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	19	PQL	ug/Kg	
	CHRYSENE	J	1.1	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.81	1.8	PQL	ug/Kg	
SL-192-SA6-SB-9.0-10.0	PYRENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	0.84	1.8	PQL	ug/Kg	
	CHRYSENE	J	0.75	1.8	PQL	ug/Kg	
SL-253-SA6-SB-4.0-5.0	PYRENE	J	1.6	1.8	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.46	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	19	PQL	ug/Kg	
SL-255-SA6-SB-2.0-3.0	DIBENZO(A,H)ANTHRACENE	J	0.93	1.7	PQL	ug/Kg	J (all detects)
	ACENAPHTHENE	J	0.98	1.8	PQL	ug/Kg	
	CHRYSENE	J	1.2	1.8	PQL	ug/Kg	
	PYRENE	J	0.78	1.8	PQL	ug/Kg	

LDC #: 26859D4

VALIDATION COMPLETENESS WORKSHEET

Date: 12/27/11

SDG #: DE234

ADR

Page: 1 of 1

Laboratory: Lancaster Laboratories

Reviewer: MN

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	
VII.	Duplicate Sample Analysis	SW	
VIII.	Laboratory Control Samples (LCS)	SW	Ti, Sr, Mn, JLA/...
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	As, Ba, Co, Cu, Pb, Ni, J/nJ (SP40E-233)
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: Soil

1	SL-249-SA6-SB-4.0-5.0	11	LMB	21		31	
2	SL-253-SA6-SB-4.0-5.0	12		22		32	
3	SL-255-SA6-SB-2.0-3.0	13		23		33	
4	SL-192-SA6-SB-4.0-5.0	14		24		34	
5	SL-192-SA6-SB-9.0-10.0	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

Soil preparation factor applied: 167X

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: All Soil Reason: B

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	4	5								
Hg			0.058	0.0484	0.031	0.013								

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.

SL-282-SAB-SB-40-20
(26233)

QUALITY ASSURANCE SUMMARY
FORM 5A (MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE233
Matrix: SOIL Level (low/med): LOW



Background Lab Sample ID: 6389710BKG Matrix Spike Lab Sample ID: 6389711MS Matrix Spike Duplicate Lab Sample ID: 6389712MSD
& Solids for Sample: 94.9
Batch Id(s): P24308B, P24326A, P24311B, P25008A

Analyte	Mass	BKG Sample		MS Sample		MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS		MSD		Control Limit	
		Result	C	Result	C						%R	Q	%R	Q	%R	RPD
Aluminum	-	13914.3851		15016.6950		14911.0919		208.6615	204.6099	MG/KG	528	487	1			20P
Antimony	-	8.4465		9.3179		6.8712		1.2277	1.2520	MG/KG	71	-126	30	*		20MS
Arsenic	-	9.3804		15.4521		12.8598		2.0461	2.0856	MG/KG	297	167	18			20MS
Barium	-	141.9038		173.2432		126.0316		10.2305	10.4331	MG/KG	306	-152	32	*		20MS
Beryllium	9	0.8246		2.2057		2.2890		0.8184	0.8346	MG/KG	169	175	N	4		20MS
Boron	-	0.6987	B	224.8088		218.5141		208.6615	204.6099	MG/KG	107	106	3			20P
Cadmium	111	3.5393		7.1491		5.6297		1.0230	1.0433	MG/KG	353	200	N	24	*	20MS
Calcium	-	3401.7218		4079.3759		3886.3515		417.3231	409.2197	MG/KG	162	118	5			20P
Chromium	-	130.9531		77.0561		58.9260		10.2305	10.4331	MG/KG	-527	-690	27	*		20MS
Cobalt	59	11.0023		94.4684		96.4225		51.1525	52.1654	MG/KG	163	164	N	2		20MS
Copper	-	96.3243		553.4697		117.1426		10.2305	10.4331	MG/KG	4468	200	130	*		20MS
Iron	-	21471.1674		21722.9674		20612.8198		104.3308	102.3049	MG/KG	241	-839	5			20P
Lead	208	87.9770		95.6551		102.3798		3.0691	3.1299	MG/KG	250	460	7			20MS
Lithium	-	21.7869		128.9476		125.0207		104.3308	102.3049	MG/KG	103	101	3			20P
Magnesium	-	4485.3510		4501.7632		4334.1074		208.6615	204.6099	MG/KG	8	-74	4			20P
Manganese	-	267.3831		351.0063		317.1668		52.1654	51.1525	MG/KG	160	97	10			20P
Mercury	-	0.8634		1.0623		0.9931		0.1713	0.1727	MG/KG	116	75	7			20CV
Molybdenum	98	3.8658		26.7220		20.7702		10.2305	10.4331	MG/KG	223	162	N	25	*	20MS
Nickel	60	81.4066		64.9227		53.7095		10.2305	10.4331	MG/KG	-161	-285	19			20MS
Phosphorus	-	475.5941		545.4131		523.0943		104.3308	102.3049	MG/KG	67	46	4			20P
Potassium	-	3051.3632		4182.2909		4123.5005		1043.3077	1023.0493	MG/KG	108	105	1			20P
Selenium	78	0.2066	B	3.3576		3.4575		2.0461	2.0866	MG/KG	154	156	N	3		20MS
Silver	107	2.9732		21.2590		25.2480		10.2305	10.4331	MG/KG	179	214	N	17		20MS
Sodium	-	176.7533		1239.7323		1182.0383		1043.3077	1023.0493	MG/KG	102	98	5			20P
Strontium	-	25.3246		130.8558		126.5819		104.3308	102.3049	MG/KG	101	99	3			20P
Thallium	203	0.3062		0.9508		0.9688		0.4092	0.4173	MG/KG	158	159	N	2		20MS
Tin	-	3.6891	B	388.1595		376.1681		417.3231	409.2197	MG/KG	92	91	3			20P
Titanium	-	1036.3541		1180.9478		1089.5295		102.3049	101.3212	MG/KG	141	52	8			20P
Vanadium	51	45.2075		64.5544		66.1666		10.2305	10.4331	MG/KG	189	201	2			20MS
Zinc	66	470.8775		589.0718		384.2502		10.2305	10.4331	MG/KG	1155	-830	42	*		20MS
Zirconium	90	2.9842	B	106.7784		103.1080		104.3308	102.3049	MG/KG	99	98	3			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



QUALITY ASSURANCE SUMMARY

FORM 6

DUPLICATES

SDG No.: DE233

Matrix: SOIL

Level (low/med): LOW

J/WJ

Background Lab Sample ID: 6389710BKG

Duplicate Lab Sample ID: 6389713DUP

% Solids for Duplicate: 95.0

% Solids for Sample: 94.9

Batch ID(s): P24308B, P24326A, P24311B, P25008A

Concentration Units: MG/KG

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			13914.3851		16708.1286		18		P
Antimony	121		8.4465		9.6965		14		MS
Arsenic	75		9.3804		8.6934		8		MS
Barium	137		141.9038		148.3456		4		MS
Beryllium	9		0.8246		0.8042		2		MS
Boron		5.1	0.6987	B	6.6438		11		P
Cadmium	111		3.5393		3.9579		11		MS
Calcium			3401.7218		3431.6196		1		P
Chromium	52		130.9531		52.6238		85	*	MS
Cobalt	59		11.0023		10.6934		3		MS
Copper	63		96.3243		90.6006		6		MS
Iron			21471.1674		21857.6934		2		P
Lead	208		87.9770		96.9020		10		MS
Lithium			21.7869		21.6913		0		P
Magnesium			4485.3510		4236.3635		6		P
Manganese			267.3831		312.3151		16		P
Mercury		0.5	0.8634		0.7765		11		CV
Molybdenum	98		3.8658		2.5416		41	*	MS
Nickel	60		81.4066		43.2244		61	*	MS
Phosphorus			475.5941		484.7081		2		P
Potassium			3051.3632		3145.9673		3		P
Selenium	78		0.2066	B	0.2301	B	11		MS
Silver	107		2.9732		3.7935		24	*	MS
Sodium		102.3	176.7533		170.7292		3		P
Strontium			25.3246		24.5522		3		P
Thallium	203	0.1	0.3062		0.3172		4		MS
Tin			3.6891	B	3.5321	B	4		P
Titanium			1036.3541		1017.3268		2		P
Vanadium	51		45.2075		44.6154		1		MS
Zinc	66		470.8775		427.0811		10		MS
Zirconium			2.9842	B	2.9210	B	2		P

OK

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.

DE233 3843

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 Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Aug-2011	TB-083011	6392235	TB	5030B	8015M	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0	6392229	N	3050B	6010B	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0	6392229	N	3050B	6020	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0	6392229	N	3060A	7199	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0	6392229	N	3546	1625C	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0	6392229	N	3550B	8015B	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0	6392229	N	3550B	8015M	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0	6392229	N	3550B	8082	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0	6392229	N	3550B	8270C	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0	6392229	N	3550B	8270C SIM	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0	6392229	N	5035	8015M	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0	6392229	N	8330	8330A	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0	6392229	N	METHOD	300.0	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0	6392229	N	METHOD	314.0	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0	6392229	N	METHOD	7471A	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0	6392229	N	METHOD	8015B	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0	6392229	N	METHOD	8015M	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0	6392229	N	METHOD	8315A	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0	6392229	N	METHOD	9012B	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0DUP	P392229D271749B	DUP	METHOD	300.0	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0DUP	P392229D271858B	DUP	METHOD	314.0	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0MSD	P392229M320445A	MSD	3550B	8015M	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0MS	P392229R271503B	MS	METHOD	314.0	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0MS	P392229R271803B	MS	METHOD	300.0	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0MS	P392229R320421A	MS	3550B	8015M	III
30-Aug-2011	SL-267-SA6-SB-9.0-10.0	6392230	N	3050B	6010B	III

SAMPLE DELIVERY GROUP

DE235

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
30-Aug-2011	SL-267-SA6-SB-9.0-10.0	6392230	N	3050B	6020	III
30-Aug-2011	SL-267-SA6-SB-9.0-10.0	6392230	N	3060A	7199	III
30-Aug-2011	SL-267-SA6-SB-9.0-10.0	6392230	N	3546	1625C	III
30-Aug-2011	SL-267-SA6-SB-9.0-10.0	6392230	N	3550B	8015B	III
30-Aug-2011	SL-267-SA6-SB-9.0-10.0	6392230	N	3550B	8015M	III
30-Aug-2011	SL-267-SA6-SB-9.0-10.0	6392230	N	3550B	8082	III
30-Aug-2011	SL-267-SA6-SB-9.0-10.0	6392230	N	3550B	8270C	III
30-Aug-2011	SL-267-SA6-SB-9.0-10.0	6392230	N	3550B	8270C SIM	III
30-Aug-2011	SL-267-SA6-SB-9.0-10.0	6392230	N	5035	8015M	III
30-Aug-2011	SL-267-SA6-SB-9.0-10.0	6392230	N	8330	8330A	III
30-Aug-2011	SL-267-SA6-SB-9.0-10.0	6392230	N	METHOD	300.0	III
30-Aug-2011	SL-267-SA6-SB-9.0-10.0	6392230	N	METHOD	314.0	III
30-Aug-2011	SL-267-SA6-SB-9.0-10.0	6392230	N	METHOD	7471A	III
30-Aug-2011	SL-267-SA6-SB-9.0-10.0	6392230	N	METHOD	8015B	III
30-Aug-2011	SL-267-SA6-SB-9.0-10.0	6392230	N	METHOD	8015M	III
30-Aug-2011	SL-267-SA6-SB-9.0-10.0	6392230	N	METHOD	8315A	III
30-Aug-2011	SL-267-SA6-SB-9.0-10.0	6392230	N	METHOD	9012B	III
30-Aug-2011	SL-305-SA6-SS-0.0-0.5	6392232	N	3050B	6010B	III
30-Aug-2011	SL-305-SA6-SS-0.0-0.5	6392232	N	3050B	6020	III
30-Aug-2011	SL-305-SA6-SS-0.0-0.5	6392232	N	3060A	7199	III
30-Aug-2011	SL-305-SA6-SS-0.0-0.5	6392232	N	3550B	8015B	III
30-Aug-2011	SL-305-SA6-SS-0.0-0.5	6392232	N	3550B	8015M	III
30-Aug-2011	SL-305-SA6-SS-0.0-0.5	6392232	N	3550B	8081A	III
30-Aug-2011	SL-305-SA6-SS-0.0-0.5	6392232	N	3550B	8082	III
30-Aug-2011	SL-305-SA6-SS-0.0-0.5	6392232	N	3550B	8151A	III
30-Aug-2011	SL-305-SA6-SS-0.0-0.5	6392232	N	3550B	8270C	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
30-Aug-2011	SL-305-SA6-SS-0.0-0.5	6392232	N	3550B	8270C SIM	III
30-Aug-2011	SL-305-SA6-SS-0.0-0.5	6392232	N	METHOD	300.0	III
30-Aug-2011	SL-305-SA6-SS-0.0-0.5	6392232	N	METHOD	314.0	III
30-Aug-2011	SL-305-SA6-SS-0.0-0.5	6392232	N	METHOD	6850	III
30-Aug-2011	SL-305-SA6-SS-0.0-0.5	6392232	N	METHOD	7471A	III
30-Aug-2011	SL-305-SA6-SS-0.0-0.5	6392232	N	METHOD	8015B	III
30-Aug-2011	SL-305-SA6-SS-0.0-0.5	6392232	N	METHOD	8015M	III
30-Aug-2011	SL-305-SA6-SS-0.0-0.5MSD	P392232M241713A	MSD	3550B	8151A	III
30-Aug-2011	SL-305-SA6-SS-0.0-0.5MSD	P392232M241907A	MSD	3550B	8081A	III
30-Aug-2011	SL-305-SA6-SS-0.0-0.5MS	P392232R241646A	MS	3550B	8151A	III
30-Aug-2011	SL-305-SA6-SS-0.0-0.5MS	P392232R241852A	MS	3550B	8081A	III
30-Aug-2011	SL-305-SA6-SB-2.0-3.0	6392231	N	3050B	6010B	III
30-Aug-2011	SL-305-SA6-SB-2.0-3.0	6392231	N	3050B	6020	III
30-Aug-2011	SL-305-SA6-SB-2.0-3.0	6392231	N	3060A	7199	III
30-Aug-2011	SL-305-SA6-SB-2.0-3.0	6392231	N	3550B	8015B	III
30-Aug-2011	SL-305-SA6-SB-2.0-3.0	6392231	N	3550B	8015M	III
30-Aug-2011	SL-305-SA6-SB-2.0-3.0	6392231	N	3550B	8082	III
30-Aug-2011	SL-305-SA6-SB-2.0-3.0	6392231	N	3550B	8270C	III
30-Aug-2011	SL-305-SA6-SB-2.0-3.0	6392231	N	3550B	8270C SIM	III
30-Aug-2011	SL-305-SA6-SB-2.0-3.0	6392231	N	5035	8015M	III
30-Aug-2011	SL-305-SA6-SB-2.0-3.0	6392231	N	METHOD	300.0	III
30-Aug-2011	SL-305-SA6-SB-2.0-3.0	6392231	N	METHOD	314.0	III
30-Aug-2011	SL-305-SA6-SB-2.0-3.0	6392231	N	METHOD	7471A	III
30-Aug-2011	SL-305-SA6-SB-2.0-3.0	6392231	N	METHOD	8015B	III
30-Aug-2011	SL-305-SA6-SB-2.0-3.0	6392231	N	METHOD	8015M	III
30-Aug-2011	EB-SA6-SB-083011	6392236	EB	3005A	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Aug-2011	EB-SA6-SB-083011	6392236	EB	3020A	6020	III
30-Aug-2011	EB-SA6-SB-083011	6392236	EB	3510C	8015B	III
30-Aug-2011	EB-SA6-SB-083011	6392236	EB	3510C	8015M	III
30-Aug-2011	EB-SA6-SB-083011	6392236	EB	3510C	8082	III
30-Aug-2011	EB-SA6-SB-083011	6392236	EB	3510C	8270C	III
30-Aug-2011	EB-SA6-SB-083011	6392236	EB	3510C	8270C SIM	III
30-Aug-2011	EB-SA6-SB-083011	6392236	EB	3520C	1625C	III
30-Aug-2011	EB-SA6-SB-083011	6392236	EB	5030B	8015M	III
30-Aug-2011	EB-SA6-SB-083011	6392236	EB	8330	8330A	III
30-Aug-2011	EB-SA6-SB-083011	6392236	EB	Gen Prep	300.0	III
30-Aug-2011	EB-SA6-SB-083011	6392236	EB	Gen Prep	314.0	III
30-Aug-2011	EB-SA6-SB-083011	6392236	EB	Gen Prep	7199	III
30-Aug-2011	EB-SA6-SB-083011	6392236	EB	Gen Prep	8015B	III
30-Aug-2011	EB-SA6-SB-083011	6392236	EB	Gen Prep	8015M	III
30-Aug-2011	EB-SA6-SB-083011	6392236	EB	METHOD	7470A	III
30-Aug-2011	EB-SA6-SB-083011	6392236	EB	METHOD	8315A	III
30-Aug-2011	EB-SA6-SB-083011	6392236	EB	METHOD	9012B	III
30-Aug-2011	SL-306-SA6-SB-4.0-5.0	6392234	N	3050B	6010B	III
30-Aug-2011	SL-306-SA6-SB-4.0-5.0	6392234	N	3050B	6020	III
30-Aug-2011	SL-306-SA6-SB-4.0-5.0	6392234	N	3060A	7199	III
30-Aug-2011	SL-306-SA6-SB-4.0-5.0	6392234	N	3550B	8082	III
30-Aug-2011	SL-306-SA6-SB-4.0-5.0	6392234	N	3550B	8270C	III
30-Aug-2011	SL-306-SA6-SB-4.0-5.0	6392234	N	3550B	8270C SIM	III
30-Aug-2011	SL-306-SA6-SB-4.0-5.0	6392234	N	METHOD	300.0	III
30-Aug-2011	SL-306-SA6-SB-4.0-5.0	6392234	N	METHOD	314.0	III
30-Aug-2011	SL-306-SA6-SB-4.0-5.0	6392234	N	METHOD	7471A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Aug-2011	SL-306-SA6-SS-0.0-0.5	6392233	N	3050B	6010B	III
30-Aug-2011	SL-306-SA6-SS-0.0-0.5	6392233	N	3050B	6020	III
30-Aug-2011	SL-306-SA6-SS-0.0-0.5	6392233	N	3060A	7199	III
30-Aug-2011	SL-306-SA6-SS-0.0-0.5	6392233	N	3546	1625C	III
30-Aug-2011	SL-306-SA6-SS-0.0-0.5	6392233	N	3550B	8015B	III
30-Aug-2011	SL-306-SA6-SS-0.0-0.5	6392233	N	3550B	8015M	III
30-Aug-2011	SL-306-SA6-SS-0.0-0.5	6392233	N	3550B	8081A	III
30-Aug-2011	SL-306-SA6-SS-0.0-0.5	6392233	N	3550B	8082	III
30-Aug-2011	SL-306-SA6-SS-0.0-0.5	6392233	N	3550B	8151A	III
30-Aug-2011	SL-306-SA6-SS-0.0-0.5	6392233	N	3550B	8270C	III
30-Aug-2011	SL-306-SA6-SS-0.0-0.5	6392233	N	3550B	8270C SIM	III
30-Aug-2011	SL-306-SA6-SS-0.0-0.5	6392233	N	8330	8330A	III
30-Aug-2011	SL-306-SA6-SS-0.0-0.5	6392233	N	METHOD	300.0	III
30-Aug-2011	SL-306-SA6-SS-0.0-0.5	6392233	N	METHOD	314.0	III
30-Aug-2011	SL-306-SA6-SS-0.0-0.5	6392233	N	METHOD	7471A	III
30-Aug-2011	SL-306-SA6-SS-0.0-0.5	6392233	N	METHOD	8015B	III
30-Aug-2011	SL-306-SA6-SS-0.0-0.5	6392233	N	METHOD	8015M	III
30-Aug-2011	SL-306-SA6-SS-0.0-0.5	6392233	N	METHOD	8315A	III
30-Aug-2011	SL-306-SA6-SS-0.0-0.5	6392233	N	METHOD	9012B	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE235

Laboratory: LL

EDD Filename: PrepDE235_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-267-SA6-SB-9.0-10.0 Collected: 8/30/2011 9:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.1	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6010B	Matrix: AQ

Sample ID: EB-SA6-SB-083011 Collected: 8/30/2011 1:00:00 Analysis Type: REA3 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0097	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
STRONTIUM	0.00041	J	0.00022	MDL	0.0050	PQL	mg/L	U	B

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-267-SA6-SB-4.0-5.0 Collected: 8/30/2011 9:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	17300		2.64	MDL	20.2	PQL	mg/Kg	J	E
PHOSPHORUS	395		0.354	MDL	10.1	PQL	mg/Kg	J	E
POTASSIUM	2940		11.4	MDL	50.6	PQL	mg/Kg	J	Q
SODIUM	82.4	J	6.02	MDL	101	PQL	mg/Kg	J	Z
TIN	2.69	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.13	J	0.465	MDL	5.06	PQL	mg/Kg	J	Z

Sample ID: SL-267-SA6-SB-9.0-10.0 Collected: 8/30/2011 9:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	14700		2.70	MDL	20.7	PQL	mg/Kg	J	E
PHOSPHORUS	373		0.362	MDL	10.3	PQL	mg/Kg	J	E
POTASSIUM	2770		11.7	MDL	51.7	PQL	mg/Kg	J	Q
SODIUM	102	J	6.15	MDL	103	PQL	mg/Kg	J	Z
TIN	2.63	J	0.331	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	0.677	J	0.476	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

1/6/2012 7:16:48 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE235

Laboratory: LL

EDD Filename: PrepDE235_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-305-SA6-SB-2.0-3.0	Collected: 8/30/2011 12:00:00	Analysis Type: REA2	Dilution: 5
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	34500		14.0	MDL	107	PQL	mg/Kg	J	E

Sample ID: SL-305-SA6-SB-2.0-3.0	Collected: 8/30/2011 12:00:00	Analysis Type: RES	Dilution: 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	1020		0.376	MDL	10.7	PQL	mg/Kg	J	E
POTASSIUM	3320		12.1	MDL	53.7	PQL	mg/Kg	J	Q
TIN	3.73	J	0.344	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	2.44	J	0.494	MDL	5.37	PQL	mg/Kg	J	Z

Sample ID: SL-305-SA6-SS-0.0-0.5	Collected: 8/30/2011 10:45:00	Analysis Type: RES	Dilution: 1
----------------------------------	-------------------------------	--------------------	-------------

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	16900		2.75	MDL	21.1	PQL	mg/Kg	J	E
PHOSPHORUS	388		0.369	MDL	10.5	PQL	mg/Kg	J	E
POTASSIUM	1940		11.9	MDL	52.7	PQL	mg/Kg	J	Q
TIN	2.61	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.87	J	0.485	MDL	5.27	PQL	mg/Kg	J	Z

Sample ID: SL-306-SA6-SB-4.0-5.0	Collected: 8/30/2011 2:55:00	Analysis Type: RES	Dilution: 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	24300		2.66	MDL	20.4	PQL	mg/Kg	J	E
PHOSPHORUS	326		0.356	MDL	10.2	PQL	mg/Kg	J	E
POTASSIUM	2260		11.5	MDL	50.9	PQL	mg/Kg	J	Q
SODIUM	98.7	J	6.05	MDL	102	PQL	mg/Kg	J	Z
TIN	2.83	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.78	J	0.468	MDL	5.09	PQL	mg/Kg	J	Z

Sample ID: SL-306-SA6-SS-0.0-0.5	Collected: 8/30/2011 3:00:00	Analysis Type: RES	Dilution: 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	21800		2.66	MDL	20.4	PQL	mg/Kg	J	E
PHOSPHORUS	415		0.356	MDL	10.2	PQL	mg/Kg	J	E
POTASSIUM	3260		11.5	MDL	50.9	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: DE235

Laboratory: LL

EDD Filename: PrepDE235_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-306-SA6-SS-0.0-0.5 Collected: 8/30/2011 3:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	80.1	J	6.05	MDL	102	PQL	mg/Kg	J	Z
TIN	2.85	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.37	J	0.468	MDL	5.09	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-267-SA6-SB-4.0-5.0 Collected: 8/30/2011 9:05:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0871	J	0.0587	MDL	0.405	PQL	mg/Kg	J	Z

Sample ID: SL-267-SA6-SB-4.0-5.0 Collected: 8/30/2011 9:05:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.04		0.0506	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-267-SA6-SB-4.0-5.0 Collected: 8/30/2011 9:05:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	85.9		0.107	MDL	0.405	PQL	mg/Kg	J	E

Sample ID: SL-267-SA6-SB-4.0-5.0 Collected: 8/30/2011 9:05:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.124	J	0.0749	MDL	0.202	PQL	mg/Kg	J	Z, Q
ARSENIC	5.41		0.0809	MDL	0.405	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.617		0.0162	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.0696	J	0.0445	MDL	0.101	PQL	mg/Kg	J	Z, Q
CHROMIUM	12.7		0.121	MDL	0.405	PQL	mg/Kg	J	Q
COBALT	6.58		0.0202	MDL	0.101	PQL	mg/Kg	J	Q, E
COPPER	11.2		0.0809	MDL	0.405	PQL	mg/Kg	J	Q, E
LEAD	5.60		0.0103	MDL	0.202	PQL	mg/Kg	J	E, Q
NICKEL	8.02		0.101	MDL	0.405	PQL	mg/Kg	J	Q, E
THALLIUM	0.254		0.0304	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: DE235

Laboratory: LL

EDD Filename: PrepDE235_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-267-SA6-SB-4.0-5.0 Collected: 8/30/2011 9:05:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	32.0		0.0223	MDL	0.101	PQL	mg/Kg	J	Q
ZINC	71.4		0.567	MDL	3.04	PQL	mg/Kg	J	E

Sample ID: SL-267-SA6-SB-9.0-10.0 Collected: 8/30/2011 9:15:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0913	J	0.0600	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: SL-267-SA6-SB-9.0-10.0 Collected: 8/30/2011 9:15:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.372		0.0517	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-267-SA6-SB-9.0-10.0 Collected: 8/30/2011 9:15:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	78.2		0.110	MDL	0.414	PQL	mg/Kg	J	E

Sample ID: SL-267-SA6-SB-9.0-10.0 Collected: 8/30/2011 9:15:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0835	J	0.0765	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	3.80		0.0827	MDL	0.414	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.362		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	8.35		0.124	MDL	0.414	PQL	mg/Kg	J	Q
COBALT	4.13		0.0207	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	7.74		0.0827	MDL	0.414	PQL	mg/Kg	J	Q, E
LEAD	3.58		0.0105	MDL	0.207	PQL	mg/Kg	J	E, Q
NICKEL	6.17		0.103	MDL	0.414	PQL	mg/Kg	J	Q, E
THALLIUM	0.267		0.0310	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	26.1		0.0228	MDL	0.103	PQL	mg/Kg	J	Q
ZINC	60.1		0.579	MDL	3.10	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: DE235

Laboratory: LL

EDD Filename: PrepDE235_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-305-SA6-SB-2.0-3.0 Collected: 8/30/2011 12:00:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.314		0.0802	MDL	0.217	PQL	mg/Kg	J	Q

Sample ID: SL-305-SA6-SB-2.0-3.0 Collected: 8/30/2011 12:00:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.198	J	0.0629	MDL	0.434	PQL	mg/Kg	J	Z

Sample ID: SL-305-SA6-SB-2.0-3.0 Collected: 8/30/2011 12:00:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.911		0.0542	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-305-SA6-SB-2.0-3.0 Collected: 8/30/2011 12:00:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIIUM	150		0.115	MDL	0.434	PQL	mg/Kg	J	E

Sample ID: SL-305-SA6-SB-2.0-3.0 Collected: 8/30/2011 12:00:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	16.1		0.0868	MDL	0.434	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.39		0.0174	MDL	0.108	PQL	mg/Kg	J	Q
CADMIUM	0.136		0.0477	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	37.5		0.130	MDL	0.434	PQL	mg/Kg	J	Q
COBALT	13.6		0.0217	MDL	0.108	PQL	mg/Kg	J	Q, E
COPPER	35.6		0.0868	MDL	0.434	PQL	mg/Kg	J	Q, E
LEAD	20.1		0.0111	MDL	0.217	PQL	mg/Kg	J	E, Q
NICKEL	32.2		0.108	MDL	0.434	PQL	mg/Kg	J	Q, E
SILVER	0.318		0.0154	MDL	0.108	PQL	mg/Kg	J	Q
THALLIUM	0.460		0.0325	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	65.6		0.0239	MDL	0.108	PQL	mg/Kg	J	Q
ZINC	128		0.607	MDL	3.25	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: DE235

Laboratory: LL

EDD Filename: PrepDE235_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-305-SA6-SS-0.0-0.5 Collected: 8/30/2011 10:45:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.142	J	0.0611	MDL	0.421	PQL	mg/Kg	J	Z

Sample ID: SL-305-SA6-SS-0.0-0.5 Collected: 8/30/2011 10:45:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.760		0.0527	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-305-SA6-SS-0.0-0.5 Collected: 8/30/2011 10:45:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	80.5		0.112	MDL	0.421	PQL	mg/Kg	J	E

Sample ID: SL-305-SA6-SS-0.0-0.5 Collected: 8/30/2011 10:45:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.154	J	0.0779	MDL	0.211	PQL	mg/Kg	J	Z, Q
ARSENIC	4.96		0.0843	MDL	0.421	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.496		0.0169	MDL	0.105	PQL	mg/Kg	J	Q
CADMIUM	0.231		0.0463	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	21.2		0.126	MDL	0.421	PQL	mg/Kg	J	Q
COBALT	6.12		0.0211	MDL	0.105	PQL	mg/Kg	J	Q, E
COPPER	16.4		0.0843	MDL	0.421	PQL	mg/Kg	J	Q, E
LEAD	50.2		0.0107	MDL	0.211	PQL	mg/Kg	J	E, Q
NICKEL	15.7		0.105	MDL	0.421	PQL	mg/Kg	J	Q, E
SILVER	0.0773	J	0.0150	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.213		0.0316	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	45.5		0.0232	MDL	0.105	PQL	mg/Kg	J	Q
ZINC	99.7		0.590	MDL	3.16	PQL	mg/Kg	J	E

Sample ID: SL-306-SA6-SB-4.0-5.0 Collected: 8/30/2011 2:55:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.124	J	0.0614	MDL	0.423	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: DE235

Laboratory: LL

EDD Filename: PrepDE235_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-306-SA6-SB-4.0-5.0	Collected: 8/30/2011 2:55:00	Analysis Type: REA3	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.978		0.0529	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-306-SA6-SB-4.0-5.0	Collected: 8/30/2011 2:55:00	Analysis Type: REA4	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	158		0.112	MDL	0.423	PQL	mg/Kg	J	E

Sample ID: SL-306-SA6-SB-4.0-5.0	Collected: 8/30/2011 2:55:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.176	J	0.0783	MDL	0.212	PQL	mg/Kg	J	Z, Q
ARSENIC	8.15		0.0847	MDL	0.423	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.10		0.0169	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.0887	J	0.0466	MDL	0.106	PQL	mg/Kg	J	Z, Q
CHROMIUM	30.8		0.127	MDL	0.423	PQL	mg/Kg	J	Q
COBALT	9.86		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	12.1		0.0847	MDL	0.423	PQL	mg/Kg	J	Q, E
LEAD	8.04		0.0108	MDL	0.212	PQL	mg/Kg	J	E, Q
NICKEL	21.7		0.106	MDL	0.423	PQL	mg/Kg	J	Q, E
SILVER	0.0670	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.352		0.0317	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	60.8		0.0233	MDL	0.106	PQL	mg/Kg	J	Q
ZINC	63.9		0.593	MDL	3.17	PQL	mg/Kg	J	E

Sample ID: SL-306-SA6-SS-0.0-0.5	Collected: 8/30/2011 3:00:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0584	MDL	0.403	PQL	mg/Kg	J	Z

Sample ID: SL-306-SA6-SS-0.0-0.5	Collected: 8/30/2011 3:00:00	Analysis Type: REA3	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.854		0.0504	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: DE235

Laboratory: LL

EDD Filename: PrepDE235_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-306-SA6-SS-0.0-0.5	Collected: 8/30/2011 3:00:00	Analysis Type: REA4	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	121		0.107	MDL	0.403	PQL	mg/Kg	J	E

Sample ID: SL-306-SA6-SS-0.0-0.5	Collected: 8/30/2011 3:00:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.174	J	0.0746	MDL	0.202	PQL	mg/Kg	J	Z, Q
ARSENIC	5.66		0.0806	MDL	0.403	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.759		0.0161	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.286		0.0443	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	25.6		0.121	MDL	0.403	PQL	mg/Kg	J	Q
COBALT	8.02		0.0202	MDL	0.101	PQL	mg/Kg	J	Q, E
COPPER	14.6		0.0806	MDL	0.403	PQL	mg/Kg	J	Q, E
LEAD	30.1		0.0103	MDL	0.202	PQL	mg/Kg	J	E, Q
NICKEL	18.0		0.101	MDL	0.403	PQL	mg/Kg	J	Q, E
SILVER	0.103		0.0143	MDL	0.101	PQL	mg/Kg	J	Q
THALLIUM	0.301		0.0302	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	48.2		0.0222	MDL	0.101	PQL	mg/Kg	J	Q
ZINC	103		0.564	MDL	3.02	PQL	mg/Kg	J	E

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-305-SA6-SS-0.0-0.5	Collected: 8/30/2011 10:45:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.77	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-306-SA6-SB-4.0-5.0	Collected: 8/30/2011 2:55:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.47	J	0.21	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

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Data Qualifier Summary

Lab Reporting Batch ID: DE235

Laboratory: LL

EDD Filename: PrepDE235_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 7199 **Matrix:** SO

Sample ID: SL-306-SA6-SS-0.0-0.5 Collected: 8/30/2011 3:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.76	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Method Category: METALS
Method: 7471A **Matrix:** SO

Sample ID: SL-305-SA6-SS-0.0-0.5 Collected: 8/30/2011 10:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0196	J	0.0074	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-306-SA6-SS-0.0-0.5 Collected: 8/30/2011 3:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0110	J	0.0070	MDL	0.100	PQL	mg/Kg	J	Z

Method Category: SVOA
Method: 1625C **Matrix:** AQ

Sample ID: EB-SA6-SB-083011 Collected: 8/30/2011 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	2.89		0.506	MDL	1.01	PQL	ng/L	J	S

Method Category: SVOA
Method: 8015M **Matrix:** SO

Sample ID: SL-267-SA6-SB-4.0-5.0 Collected: 8/30/2011 9:05:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	1.5		0.41	MDL	1.2	PQL	mg/Kg	J	Q, Q
EFH (C30-C40)	4.8		0.41	MDL	1.2	PQL	mg/Kg	J	Q, 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: DE235

Laboratory: LL

EDD Filename: PrepDE235_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8015M	Matrix:	SO
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Sample ID: SL-267-SA6-SB-4.0-5.0 Collected: 8/30/2011 9:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q

Method Category:	SVOA	Method:	8081A	Matrix:	SO
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Sample ID: SL-305-SA6-SS-0.0-0.5 Collected: 8/30/2011 10:45:00 Analysis Type: DL-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	5.5		0.35	MDL	1.8	PQL	ug/Kg	J	L

Sample ID: SL-305-SA6-SS-0.0-0.5 Collected: 8/30/2011 10:45:00 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'-DDD	1.8		0.070	MDL	0.36	PQL	ug/Kg	J	Q, Q, S
4,4'-DDE	0.54		0.070	MDL	0.36	PQL	ug/Kg	J	S
Chlordane	2.4	J	0.85	MDL	3.6	PQL	ug/Kg	J	Z, S
DIELDRIN	0.92		0.070	MDL	0.36	PQL	ug/Kg	J	Q, Q, S
ENDOSULFAN I	0.049	J	0.047	MDL	0.18	PQL	ug/Kg	J	Z, Q, S
ENDOSULFAN II	0.81		0.070	MDL	0.36	PQL	ug/Kg	J	Q, S
ENDOSULFAN SULFATE	0.27	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z, Q, Q, S
ENDRIN	0.14	U	0.14	MDL	0.36	PQL	ug/Kg	R	Q
ENDRIN KETONE	1.4		0.070	MDL	0.36	PQL	ug/Kg	J	Q, Q, Q, S
HEPTACHLOR EPOXIDE	0.069	J	0.036	MDL	0.18	PQL	ug/Kg	J	Z, S

Sample ID: SL-306-SA6-SS-0.0-0.5 Collected: 8/30/2011 3:00:00 Analysis Type: DL-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	10		0.34	MDL	1.7	PQL	ug/Kg	J	L

Sample ID: SL-306-SA6-SS-0.0-0.5 Collected: 8/30/2011 3:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.42		0.067	MDL	0.35	PQL	ug/Kg	J	S
4,4'-DDE	2.5		0.067	MDL	0.35	PQL	ug/Kg	J	S
ALDRIN	0.067	U	0.067	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: DE235

Laboratory: LL

EDD Filename: PrepDE235_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8081A	Matrix: SO

Sample ID: SL-306-SA6-SS-0.0-0.5 Collected: 8/30/2011 3:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	R	S
BETA-BHC	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	R	S
Chlordane	1.6	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z, S
DELTA-BHC	0.037	U	0.037	MDL	0.17	PQL	ug/Kg	R	S
DIELDRIN	0.58		0.067	MDL	0.35	PQL	ug/Kg	J	S
ENDOSULFAN I	0.045	U	0.045	MDL	0.17	PQL	ug/Kg	R	S
ENDOSULFAN II	0.53		0.067	MDL	0.35	PQL	ug/Kg	J	S
ENDOSULFAN SULFATE	0.65		0.067	MDL	0.35	PQL	ug/Kg	J	S
ENDRIN	0.074	J	0.067	MDL	0.35	PQL	ug/Kg	J	Z, S
ENDRIN ALDEHYDE	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	R	S
gamma-BHC (Lindane)	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	R	S
HEPTACHLOR	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	R	S
HEPTACHLOR EPOXIDE	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	R	S
METHOXYCHLOR	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	R	S
MIREX	2.0		0.067	MDL	0.35	PQL	ug/Kg	J	S
TOXAPHENE	2.2	U	2.2	MDL	6.7	PQL	ug/Kg	R	S

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-305-SA6-SS-0.0-0.5 Collected: 8/30/2011 10:45:00 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 1016	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1221	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1232	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1242	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1248	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1254	5.2		0.35	MDL	1.8	PQL	ug/Kg	J	S
AROCLOR 1260	5.5		0.41	MDL	1.8	PQL	ug/Kg	J	S
Aroclor 1262	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
Aroclor 1268	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	S, E
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, 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: DE235

Laboratory: LL

EDD Filename: PrepDE235_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Matrix:	SO
Method:	8082		

Sample ID: SL-305-SA6-SS-0.0-0.5 Collected: 8/30/2011 10:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	S, E

Method Category:	SVOA	Matrix:	SO
Method:	8151A		

Sample ID: SL-305-SA6-SS-0.0-0.5 Collected: 8/30/2011 10:45:00 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	0.087	MDL	0.18	PQL	ug/Kg	J	Z, L

Sample ID: SL-306-SA6-SS-0.0-0.5 Collected: 8/30/2011 3:00:00 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	0.12	J	0.084	MDL	0.17	PQL	ug/Kg	J	Z, L

Method Category:	SVOA	Matrix:	AQ
Method:	8270C SIM		

Sample ID: EB-SA6-SB-083011 Collected: 8/30/2011 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	0.20	J	0.050	MDL	0.99	PQL	ug/L	J	Z
Butylbenzylphthalate	0.14	J	0.050	MDL	0.99	PQL	ug/L	J	Z
Diethylphthalate	0.34	J	0.050	MDL	0.99	PQL	ug/L	J	Z
Di-n-butylphthalate	0.95	J	0.050	MDL	0.99	PQL	ug/L	J	Z
Di-n-octylphthalate	0.16	J	0.050	MDL	0.99	PQL	ug/L	J	Z

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

Sample ID: SL-267-SA6-SB-4.0-5.0 Collected: 8/30/2011 9:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	6.9	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: DE235

Laboratory: LL

EDD Filename: PrepDE235_v2

eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-267-SA6-SB-4.0-5.0 Collected: 8/30/2011 9:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	6.8	J	6.2	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-267-SA6-SB-9.0-10.0 Collected: 8/30/2011 9:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.89	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.47	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-305-SA6-SS-0.0-0.5 Collected: 8/30/2011 10:45:00 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	30	J	18	MDL	44	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	36	J	18	MDL	44	PQL	ug/Kg	J	Z
CHRYSENE	31	J	8.9	MDL	44	PQL	ug/Kg	J	Z

Sample ID: SL-306-SA6-SB-4.0-5.0 Collected: 8/30/2011 2:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.3	J	6.3	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	6.9	J	6.3	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-306-SA6-SS-0.0-0.5 Collected: 8/30/2011 3:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.66	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.70	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.6	J	0.69	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: DE235

Laboratory: LL

EDD Filename: PrepDE235_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8330A	Matrix: AQ

Sample ID: EB-SA6-SB-083011 Collected: 8/30/2011 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
4-AMINO-2,6-DINITROTOLUENE	0.46	J	0.30	MDL	0.60	PQL	ug/L	J	Z
Tetryl	0.40	U	0.40	MDL	0.60	PQL	ug/L	UJ	L

Method Category:	VOA	
Method:	8015B	Matrix: SO

Sample ID: SL-305-SA6-SS-0.0-0.5 Collected: 8/30/2011 10:45:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.6	U	1.6	MDL	3.7	PQL	mg/Kg	R	S
O-TERPHENYL	1.6	U	1.6	MDL	3.7	PQL	mg/Kg	R	S
p-Terphenyl	1.6	U	1.6	MDL	3.7	PQL	mg/Kg	R	S

* 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: DE235

Laboratory: LL

EDD Filename: PrepDE235_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
	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
F	Equipment Blank Contamination

* 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: DE235

Laboratory: LL

EDD Filename: PrepDE235_v2

eQAPP Name: CDM_SSFL_110509

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
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* 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: DE235

Laboratory: LL

EDD Filename: PrepDE235_v2

eQAPP Name: CDM_SSFL_110509

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

DE235

Method Blank Outlier Report

Lab Reporting Batch ID: DE235

Laboratory: LL

EDD Filename: DE235_v2.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P25048DB221930	9/8/2011 7:30:00 PM	BORON MAGNESIUM STRONTIUM	0.0047 mg/L 0.0126 mg/L 0.00031 mg/L	EB-SA6-SB-083011

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-SA6-SB-083011(REA3)	BORON	0.0097 mg/L	0.0097U mg/L
EB-SA6-SB-083011(REA3)	STRONTIUM	0.00041 mg/L	0.00041U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P24508DB221132	9/9/2011 11:32:00 AM	ALUMINUM	7.71 mg/Kg	SL-267-SA6-SB-4.0-5.0 SL-267-SA6-SB-9.0-10.0 SL-305-SA6-SB-2.0-3.0 SL-305-SA6-SS-0.0-0.5 SL-306-SA6-SB-4.0-5.0 SL-306-SA6-SS-0.0-0.5
P24508DB222015	9/6/2011 8:15:00 PM	CALCIUM IRON MANGANESE PHOSPHORUS STRONTIUM TIN	12.4 mg/Kg 3.99 mg/Kg 0.0660 mg/Kg 1.58 mg/Kg 0.0730 mg/Kg 1.88 mg/Kg	SL-267-SA6-SB-4.0-5.0 SL-267-SA6-SB-9.0-10.0 SL-305-SA6-SB-2.0-3.0 SL-305-SA6-SS-0.0-0.5 SL-306-SA6-SB-4.0-5.0 SL-306-SA6-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-267-SA6-SB-4.0-5.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg
SL-267-SA6-SB-9.0-10.0(RES)	TIN	2.63 mg/Kg	2.63U mg/Kg
SL-305-SA6-SB-2.0-3.0(RES)	TIN	3.73 mg/Kg	3.73U mg/Kg
SL-305-SA6-SS-0.0-0.5(RES)	TIN	2.61 mg/Kg	2.61U mg/Kg
SL-306-SA6-SB-4.0-5.0(RES)	TIN	2.83 mg/Kg	2.83U mg/Kg
SL-306-SA6-SS-0.0-0.5(RES)	TIN	2.85 mg/Kg	2.85U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P24526AB221047A	9/6/2011 10:47:00 AM	VANADIUM	0.0817 mg/Kg	SL-267-SA6-SB-4.0-5.0 SL-267-SA6-SB-9.0-10.0 SL-305-SA6-SB-2.0-3.0 SL-305-SA6-SS-0.0-0.5 SL-306-SA6-SB-4.0-5.0 SL-306-SA6-SS-0.0-0.5

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE235

Laboratory: LL

EDD Filename: DE235_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-267-SA6-SB-4.0-5.0MS SL-267-SA6-SB-4.0-5.0MSD (SL-267-SA6-SB-4.0-5.0)	DIETHYLENE GLYCOL	37	35	59.00-109.00	-	DIETHYLENE GLYCOL	J (all detects) UJ (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-305-SA6-SS-0.0-0.5MS SL-305-SA6-SS-0.0-0.5MSD (SL-305-SA6-SS-0.0-0.5)	BETA-BHC ENDOSULFAN I ENDOSULFAN SULFATE ENDRIN ALDEHYDE METHOXYCHLOR	- - 172 - -	- - - - 256	14.00-147.00 16.00-137.00 21.00-160.00 10.00-148.00 32.00-147.00	67 (50.00) 79 (50.00) 55 (50.00) 41 (35.00) 94 (50.00)	BETA-BHC ENDOSULFAN I ENDOSULFAN SULFATE ENDRIN ALDEHYDE METHOXYCHLOR	J(all detects)
SL-305-SA6-SS-0.0-0.5MS SL-305-SA6-SS-0.0-0.5MSD (SL-305-SA6-SS-0.0-0.5)	4,4'-DDD 4,4'-DDT DIELDRIN ENDOSULFAN II ENDRIN ENDRIN KETONE	- -198 -34 0 - 186	-120 -167 - - 0 0	16.00-163.00 10.00-176.00 19.00-154.00 28.00-154.00 11.00-149.00 22.00-165.00	74 (50.00) - 62 (50.00) - 200 (50.00) 200 (50.00)	4,4'-DDD 4,4'-DDT DIELDRIN ENDOSULFAN II ENDRIN ENDRIN KETONE	J(all detects) R(all non-detects) DDT, No Qual, >4x

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-267-SA6-SB-4.0-5.0MS SL-267-SA6-SB-4.0-5.0MSD (SL-267-SA6-SB-4.0-5.0)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40)	- 129 256 584	- - 133 266	49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00	21 (20.00) - 47 (20.00) 52 (20.00)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40)	J(all detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-305-SA6-SS-0.0-0.5MSD (SL-305-SA6-SS-0.0-0.5)	2,4,5-TP (Silvex) DALAPON	- -	- -	24.00-141.00 10.00-125.00	54 (35.00) 61 (50.00)	2,4,5-TP (Silvex) DALAPON	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE235

Laboratory: LL

EDD Filename: DE235_v2.

eQAPP Name: CDM_SSFL_110509

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12463AQ241748A (EB-SA6-SB-083011)	Tetryl	70	-	72.00-141.00	-	Tetryl	J (all detects) UJ (all non-detects)

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P4WCLCSQ261824 P4WCLCSY261857 (EB-SA6-SB-083011)	BENZO(K)FLUORANTHENE	132	135	59.00-130.00	-	BENZO(K)FLUORANTHENE	J(all detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12502AQ241808A (SL-305-SA6-SS-0.0-0.5 SL-306-SA6-SS-0.0-0.5)	4,4'-DDT METHOXYCHLOR	135 141	- -	54.00-130.00 59.00-125.00	- -	4,4'-DDT METHOXYCHLOR	J(all detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12538AQ241550A (SL-305-SA6-SS-0.0-0.5 SL-306-SA6-SS-0.0-0.5)	2,4,5-T	71	-	73.00-143.00	-	2,4,5-T	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12532AQ242123A P12532AY242141A (SL-305-SA6-SS-0.0-0.5)	Aroclor 5442	116	-	36.00-106.00	42 (30.00)	Aroclor 5442, 5432, 5460	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE235

Laboratory: LL

EDD Filename: DE235_v2.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P24526AQ221050A (SL-267-SA6-SB-4.0-5.0 SL-267-SA6-SB-9.0-10.0 SL-305-SA6-SB-2.0-3.0 SL-305-SA6-SS-0.0-0.5 SL-306-SA6-SB-4.0-5.0 SL-306-SA6-SS-0.0-0.5)	VANADIUM	124	-	80.00-120.00	-	VANADIUM	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
P24508DQ221136 P24508DQ222019 (SL-267-SA6-SB-4.0-5.0 SL-267-SA6-SB-9.0-10.0 SL-305-SA6-SB-2.0-3.0 SL-305-SA6-SS-0.0-0.5 SL-306-SA6-SB-4.0-5.0 SL-306-SA6-SS-0.0-0.5)	ALUMINUM IRON MAGNESIUM POTASSIUM	156 146 132 130	- - - -	80.00-120.00 80.00-120.00 80.00-120.00 80.00-120.00	- - - -	ALUMINUM IRON MAGNESIUM POTASSIUM	No Qual, SRM within QC Limits

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P1LCLCSQ260411 (SL-267-SA6-SB-4.0-5.0 SL-267-SA6-SB-9.0-10.0 SL-305-SA6-SB-2.0-3.0 SL-306-SA6-SB-4.0-5.0 SL-306-SA6-SS-0.0-0.5)	Diethylphthalate FLUORENE	140 126	- -	68.00-125.00 71.00-120.00	- -	Diethylphthalate FLUORENE	J(all detects)
P5LCLCSQ262112 (SL-305-SA6-SS-0.0-0.5)	BIS(2-ETHYLHEXYL)PHTHALAT	150	-	67.00-143.00	-	BIS(2-ETHYLHEXYL)PHTHALA	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE235

Laboratory: LL

EDD Filename: DE235_v2.

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-083011	N-Nitrosodimethylamine-d6	242	50.00-150.00	All Target Analytes	J (all detects)

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-305-SA6-SS-0.0-0.5	n-Triacontane-d62	0	19.00-152.00	All Target Analytes	J(all detects) R(all non-detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-305-SA6-SS-0.0-0.5	DECACHLOROBIPHENYL	229	20.00-120.00	All Target Analytes	J(all detects)
SL-306-SA6-SS-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	J(all detects) R(all non-detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-305-SA6-SS-0.0-0.5	DECACHLOROBIPHENYL	33	45.00-120.00	All Target Analytes	J(all detects) UJ(all non-detects)
	TETRACHLORO-M-XYLENE	44	53.00-139.00		

Reporting Limit Outliers

Lab Reporting Batch ID: DE235

Laboratory: LL

EDD Filename: DE235_v2.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-083011	BORON	J	0.0097	0.0500	PQL	mg/L	J (all detects)
		J	0.00041	0.0050	PQL	mg/L	

Method: 8270C SIM
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-083011	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.20	0.99	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.14	0.99	PQL	ug/L	
	Diethylphthalate	J	0.34	0.99	PQL	ug/L	
	Di-n-butylphthalate	J	0.95	0.99	PQL	ug/L	
	Di-n-octylphthalate	J	0.16	0.99	PQL	ug/L	

Method: 8330A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-083011	4-AMINO-2,6-DINITROTOLUENE	J	0.46	0.60	PQL	ug/L	J (all detects)

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-267-SA6-SB-9.0-10.0	Nitrate-NO3	J	1.1	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-267-SA6-SB-4.0-5.0	SODIUM	J	82.4	101	PQL	mg/Kg	J (all detects)
		J	2.69	10.1	PQL	mg/Kg	
		J	1.13	5.06	PQL	mg/Kg	
SL-267-SA6-SB-9.0-10.0	TIN	J	102	103	PQL	mg/Kg	J (all detects)
		J	2.63	10.3	PQL	mg/Kg	
		J	0.677	5.17	PQL	mg/Kg	
SL-305-SA6-SB-2.0-3.0	Zirconium	J	3.73	10.7	PQL	mg/Kg	J (all detects)
		J	2.44	5.37	PQL	mg/Kg	
SL-305-SA6-SS-0.0-0.5	TIN	J	2.61	10.5	PQL	mg/Kg	J (all detects)
		J	1.87	5.27	PQL	mg/Kg	
SL-306-SA6-SB-4.0-5.0	SODIUM	J	98.7	102	PQL	mg/Kg	J (all detects)
		J	2.83	10.2	PQL	mg/Kg	
		J	2.78	5.09	PQL	mg/Kg	
SL-306-SA6-SS-0.0-0.5	TIN	J	80.1	102	PQL	mg/Kg	J (all detects)
		J	2.85	10.2	PQL	mg/Kg	
		J	2.37	5.09	PQL	mg/Kg	

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

Reporting Limit Outliers

Lab Reporting Batch ID: DE235

Laboratory: LL

EDD Filename: DE235_v2.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-267-SA6-SB-4.0-5.0	ANTIMONY CADMIUM SELENIUM	J	0.124	0.202	PQL	mg/Kg	J (all detects)
		J	0.0696	0.101	PQL	mg/Kg	
		J	0.0871	0.405	PQL	mg/Kg	
SL-267-SA6-SB-9.0-10.0	ANTIMONY SELENIUM	J	0.0835	0.207	PQL	mg/Kg	J (all detects)
		J	0.0913	0.414	PQL	mg/Kg	
SL-305-SA6-SB-2.0-3.0	SELENIUM	J	0.198	0.434	PQL	mg/Kg	J (all detects)
SL-305-SA6-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.154	0.211	PQL	mg/Kg	J (all detects)
		J	0.142	0.421	PQL	mg/Kg	
		J	0.0773	0.105	PQL	mg/Kg	
SL-306-SA6-SB-4.0-5.0	ANTIMONY CADMIUM SELENIUM SILVER	J	0.176	0.212	PQL	mg/Kg	J (all detects)
		J	0.0887	0.106	PQL	mg/Kg	
		J	0.124	0.423	PQL	mg/Kg	
		J	0.0670	0.106	PQL	mg/Kg	
SL-306-SA6-SS-0.0-0.5	ANTIMONY SELENIUM	J	0.174	0.202	PQL	mg/Kg	J (all detects)
		J	0.132	0.403	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-305-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.77	1.1	PQL	mg/Kg	J (all detects)
SL-306-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.47	1.1	PQL	mg/Kg	J (all detects)
SL-306-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.76	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-305-SA6-SS-0.0-0.5	MERCURY	J	0.0196	0.106	PQL	mg/Kg	J (all detects)
SL-306-SA6-SS-0.0-0.5	MERCURY	J	0.0110	0.100	PQL	mg/Kg	J (all detects)

Method: 8081A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-305-SA6-SS-0.0-0.5	Chlordane ENDOSULFAN I ENDOSULFAN SULFATE HEPTACHLOR EPOXIDE	J	2.4	3.6	PQL	ug/Kg	J (all detects)
		J	0.049	0.18	PQL	ug/Kg	
		J	0.27	0.36	PQL	ug/Kg	
		J	0.069	0.18	PQL	ug/Kg	
SL-306-SA6-SS-0.0-0.5	Chlordane ENDRIN	J	1.6	3.5	PQL	ug/Kg	J (all detects)
		J	0.074	0.35	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE235

Laboratory: LL

EDD Filename: DE235_v2.

eQAPP Name: CDM_SSFL_110509

Method: 8151A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-305-SA6-SS-0.0-0.5	2,4,5-T	J	0.13	0.18	PQL	ug/Kg	J (all detects)
SL-306-SA6-SS-0.0-0.5	2,4,5-T	J	0.12	0.17	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-267-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.9	19	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	6.8	19	PQL	ug/Kg	
SL-267-SA6-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	0.89	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.47	1.8	PQL	ug/Kg	
SL-305-SA6-SS-0.0-0.5	BENZO(A)PYRENE	J	30	44	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	36	44	PQL	ug/Kg	
	CHRYSENE	J	31	44	PQL	ug/Kg	
SL-306-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.3	19	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	6.9	19	PQL	ug/Kg	
SL-306-SA6-SS-0.0-0.5	ANTHRACENE	J	0.66	1.7	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	0.70	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.3	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.6	1.7	PQL	ug/Kg	

LDC #: 26859E4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE235

ADR

Laboratory: Lancaster Laboratories

Date: 12/27/11

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 find by zcb / acb
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	SW 08237
VII.	Duplicate Sample Analysis	SW	↓
VIII.	Laboratory Control Samples (LCS)	N A	SPM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	SW 08237
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV.	Field Blanks	SW	EB=7

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-267-SA6-SB-4.0-5.0	11		21		31	
2	SL-267-SA6-SB-9.0-10.0	12		22		32	
3	SL-305-SA6-SB-2.0-3.0	13		23		33	
4	SL-305-SA6-SB-0.0-0.5	14		24		34	
5	SL-306-SA6-SB-0.0-0.5	15		25		35	
6	SL-306-SA6-SB-4.0-5.0	16		26		36	
7	EB-SA6-SB-083011	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		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: 8/30/11 **Soil factor applied:** 100X

Field blank type: (circle one) Field Blank / Rinsate / Other:

Associated Samples: All Soil (ND or >5X) **Reason Code:** F

Analyte	Blank ID	Action Level	Sample Identification																	
	7	4.85																		
B	9.7	0.205																		
Sr	0.41																			

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.: DE237
 Matrix: SOIL

Level (low/med): LOW

Background Lab Sample ID: 6395204BKG Matrix Spike Lab Sample ID: 6395205MS Matrix Spike Duplicate Lab Sample ID: 6395206MSD
 % Solids for Sample: 91.4
 Batch Id(s): P24508D, P24526A, P24511B, P25508A

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	Q
Aluminum	121	20683.5992		23695.0305		24069.3389		214.5278	212.4450MG/KG	1404	1594	2	74X	20P	
Antimony	75	0.1952	B	0.8425		0.8660		1.2872	1.2999MG/KG	50	52	3	75-125	20MS	
Arsenic	137	4.7758		7.7852		8.1353		2.1453	2.1665MG/KG	140	155	4	75-125	20MS	
Barium	9	105.1390		121.4227		140.7587		10.7264	10.8326MG/KG	152	329	15	74X	20MS	
Beryllium	9	0.7504		1.7201		1.9468		0.8581	0.8666MG/KG	113	138	12	75-125	20MS	
Boron	111	0.3824	U	220.9004		209.7618		214.5278	212.4450MG/KG	103	99	5	84-115	20P	
Cadmium	111	0.1045	B	1.2925		1.5590		1.0726	1.0833MG/KG	111	134	19	75-125	20MS	
Calcium	52	2173.7790		2721.1814		2724.3175		429.0556	424.8901MG/KG	128	130	0	74X	20P	
Chromium	52	20.8812		32.9515		37.6541		10.7264	10.8326MG/KG	113	155	13	75-125	20MS	
Cobalt	59	5.8996		67.8766		75.7848		53.6320	54.1630MG/KG	116	129	11	75-125	20MS	
Copper	63	8.7719		21.8175		25.3483		10.7264	10.8326MG/KG	122	153	15	75-125	20MS	
Iron	208	20164.8977		20775.0021		21210.9855		107.2639	106.2225MG/KG	569	985	2	74X	20P	
Lead	208	5.4195		9.3856		10.8759		3.2179	3.2498MG/KG	123	168	15	75-125	20MS	
Lithium	98	23.1501		131.8939		131.2050		107.2639	106.2225MG/KG	101	102	1	82-114	20P	
Magnesium	60	4231.9199		4547.6059		4543.5629		214.5278	212.4450MG/KG	147	147	0	74X	20P	
Manganese	55	256.7154		324.6632		330.4975		53.6320	53.1113MG/KG	127	139	2	74X	20P	
Mercury	208	0.0077	U	0.1828		0.1828		0.1775	0.1724MG/KG	103	106	0	65-135	20CV	
Molybdenum	98	0.5228		12.9339		14.6067		10.7264	10.8326MG/KG	116	130	12	75-125	20MS	
Nickel	60	13.5030		27.5239		31.8478		10.7264	10.8326MG/KG	131	169	15	75-125	20MS	
Phosphorus	31	207.4728		332.0097		334.2451		107.2639	106.2225MG/KG	116	119	1	75-125	20P	
Potassium	78	2146.3417		3687.5413		3587.5029		1072.6391	1062.2252MG/KG	144	136	3	75-125	20P	
Selenium	107	0.1267	B	2.6816		2.7731		2.1453	2.1665MG/KG	119	122	3	75-125	20MS	
Silver	107	0.0410	B	12.8137		14.0585		10.7264	10.8326MG/KG	119	129	9	75-125	20MS	
Sodium	23	97.8883	B	1123.5219		1099.9140		1072.6391	1062.2252MG/KG	96	94	2	75-125	20P	
Strontium	203	23.6026		128.5730		125.9289		107.2639	106.2225MG/KG	98	96	2	75-115	20P	
Thallium	203	0.2613		0.7965		0.8850		0.4291	0.4333MG/KG	125	144	11	75-125	20MS	
Tin	119	2.8500	B	384.5486		377.0910		429.0556	424.8901MG/KG	89	88	2	80-110	20P	
Titanium	48	1345.1630		1592.0453		1513.0414		107.2639	108.3259MG/KG	230	155	5	74X	20P	
Vanadium	51	41.5755		56.0561		62.5041		10.7264	10.8326MG/KG	135	193	11	75-125	20MS	
Zinc	66	52.7289		65.8815		75.5682		10.7264	10.8326MG/KG	123	211	14	74X	20MS	
Zirconium	90	2.3040	B	106.9636		104.8299		107.2639	106.2225MG/KG	98	97	2	75-125	20P	

METHODS:

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.: DE237

Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6395204BKG

Duplicate Lab Sample ID: 6395207DUP

% Solids for Duplicate: 91.4

% Solids for Sample: 91.4

Batch ID(s): P24508D, P24526A, P24511B, P25508A

Concentration Units: MG/KG

JMJ

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			20683.5992		20986.2188		1		P
Antimony	121		0.1952	B	0.1916	B	2		MS
Arsenic	75		4.7758		6.0037		23	*	MS
Barium	137		105.1390		143.2942		31	*	MS
Beryllium	9		0.7504		0.9080		19		MS
Boron			0.3824	U	0.3900	U			P
Cadmium	111	0.1	0.1045	B	0.1410		20		MS
Calcium			2173.7790		2180.1038		0		P
Chromium	52		20.8812		24.9835		18		MS
Cobalt	59		5.8996		7.3336		22	*	MS
Copper	63		8.7719		11.4444		26	*	MS
Iron			20164.8977		36380.7819		57	*	P
Lead	208		5.4195		6.8705		24	*	MS
Lithium			23.1501		23.2695		1		P
Magnesium			4231.9199		4308.9358		2		P
Manganese			256.7154		301.1201		16		P
Mercury			0.0077	U	0.0078	U			CV
Molybdenum	98	0.1	0.5228		0.6099		15		MS
Nickel	60		13.5030		17.0806		23	*	MS
Phosphorus			207.4728		273.2110		27	*	P
Potassium			2146.3417		2544.9043		17		P
Selenium	78		0.1267	B	0.0986	B	25		MS
Silver	107		0.0410	B	0.0488	B	17		MS
Sodium			97.8883	B	94.9618	B	3		P
Strontium			23.6026		22.3216		6		P
Thallium	203	0.1	0.2613		0.3244		22		MS
Tin			2.8500	B	2.8934	B	2		P
Titanium			1345.1630		1318.9204		2		P
Vanadium	51		41.5755		49.1810		17		MS
Zinc	66		52.7289		65.9854		22	*	MS
Zirconium			2.3040	B	2.6930	B	16		P

LSX

LSX

LSX

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.

DE237 2388

<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

DE236

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
31-Aug-2011	TB-083111	6393654	TB	5030B	8015M	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0	6393647	N	3050B	6010B	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0	6393647	N	3050B	6020	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0	6393647	N	3060A	7199	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0	6393647	N	3546	1625C	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0	6393647	N	3550B	8015B	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0	6393647	N	3550B	8015M	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0	6393647	N	3550B	8082	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0	6393647	N	3550B	8270C	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0	6393647	N	3550B	8270C SIM	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0	6393647	N	5035	8015M	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0	6393647	N	8330	8330A	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0	6393647	N	METHOD	300.0	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0	6393647	N	METHOD	314.0	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0	6393647	N	METHOD	7471A	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0	6393647	N	METHOD	8015B	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0	6393647	N	METHOD	8015M	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0	6393647	N	METHOD	8315A	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0	6393647	N	METHOD	9012B	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0DUP	P393647D270557A	DUP	METHOD	300.0	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0DUP	P393647D271408A	DUP	METHOD	314.0	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0DUP	P393647D271918A	DUP	METHOD	9012B	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0MSD	P393647M320014A	MSD	3550B	8015M	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0MS	P393647R270610A	MS	METHOD	300.0	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0MS	P393647R271853A	MS	METHOD	314.0	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0MS	P393647R271919A	MS	METHOD	9012B	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
31-Aug-2011	SL-198-SA6-SB-4.0-5.0MS	P393647R321516A	MS	METHOD	8015M	III
31-Aug-2011	SL-198-SA6-SB-9.0-10.0	6393648	N	3050B	6010B	III
31-Aug-2011	SL-198-SA6-SB-9.0-10.0	6393648	N	3050B	6020	III
31-Aug-2011	SL-198-SA6-SB-9.0-10.0	6393648	N	3060A	7199	III
31-Aug-2011	SL-198-SA6-SB-9.0-10.0	6393648	N	3546	1625C	III
31-Aug-2011	SL-198-SA6-SB-9.0-10.0	6393648	N	3550B	8015B	III
31-Aug-2011	SL-198-SA6-SB-9.0-10.0	6393648	N	3550B	8015M	III
31-Aug-2011	SL-198-SA6-SB-9.0-10.0	6393648	N	3550B	8082	III
31-Aug-2011	SL-198-SA6-SB-9.0-10.0	6393648	N	3550B	8270C	III
31-Aug-2011	SL-198-SA6-SB-9.0-10.0	6393648	N	3550B	8270C SIM	III
31-Aug-2011	SL-198-SA6-SB-9.0-10.0	6393648	N	5035	8015M	III
31-Aug-2011	SL-198-SA6-SB-9.0-10.0	6393648	N	8330	8330A	III
31-Aug-2011	SL-198-SA6-SB-9.0-10.0	6393648	N	METHOD	300.0	III
31-Aug-2011	SL-198-SA6-SB-9.0-10.0	6393648	N	METHOD	314.0	III
31-Aug-2011	SL-198-SA6-SB-9.0-10.0	6393648	N	METHOD	7471A	III
31-Aug-2011	SL-198-SA6-SB-9.0-10.0	6393648	N	METHOD	8015B	III
31-Aug-2011	SL-198-SA6-SB-9.0-10.0	6393648	N	METHOD	8015M	III
31-Aug-2011	SL-198-SA6-SB-9.0-10.0	6393648	N	METHOD	8315A	III
31-Aug-2011	SL-198-SA6-SB-9.0-10.0	6393648	N	METHOD	9012B	III
31-Aug-2011	SL-213-SA6-SB-4.0-5.0	6393652	N	3050B	6010B	III
31-Aug-2011	SL-213-SA6-SB-4.0-5.0	6393652	N	3050B	6020	III
31-Aug-2011	SL-213-SA6-SB-4.0-5.0	6393652	N	3060A	7199	III
31-Aug-2011	SL-213-SA6-SB-4.0-5.0	6393652	N	3546	1625C	III
31-Aug-2011	SL-213-SA6-SB-4.0-5.0	6393652	N	3550B	8015B	III
31-Aug-2011	SL-213-SA6-SB-4.0-5.0	6393652	N	3550B	8015M	III
31-Aug-2011	SL-213-SA6-SB-4.0-5.0	6393652	N	3550B	8082	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
31-Aug-2011	SL-213-SA6-SB-4.0-5.0	6393652	N	3550B	8270C	III
31-Aug-2011	SL-213-SA6-SB-4.0-5.0	6393652	N	3550B	8270C SIM	III
31-Aug-2011	SL-213-SA6-SB-4.0-5.0	6393652	N	5035	8015M	III
31-Aug-2011	SL-213-SA6-SB-4.0-5.0	6393652	N	8330	8330A	III
31-Aug-2011	SL-213-SA6-SB-4.0-5.0	6393652	N	METHOD	300.0	III
31-Aug-2011	SL-213-SA6-SB-4.0-5.0	6393652	N	METHOD	314.0	III
31-Aug-2011	SL-213-SA6-SB-4.0-5.0	6393652	N	METHOD	7471A	III
31-Aug-2011	SL-213-SA6-SB-4.0-5.0	6393652	N	METHOD	8015B	III
31-Aug-2011	SL-213-SA6-SB-4.0-5.0	6393652	N	METHOD	8015M	III
31-Aug-2011	SL-213-SA6-SB-4.0-5.0	6393652	N	METHOD	8315A	III
31-Aug-2011	SL-213-SA6-SB-4.0-5.0	6393652	N	METHOD	9012B	III
31-Aug-2011	SL-201-SA6-SB-2.0-3.0	6393651	N	3050B	6010B	III
31-Aug-2011	SL-201-SA6-SB-2.0-3.0	6393651	N	3050B	6020	III
31-Aug-2011	SL-201-SA6-SB-2.0-3.0	6393651	N	3060A	7199	III
31-Aug-2011	SL-201-SA6-SB-2.0-3.0	6393651	N	3546	1625C	III
31-Aug-2011	SL-201-SA6-SB-2.0-3.0	6393651	N	3550B	8015B	III
31-Aug-2011	SL-201-SA6-SB-2.0-3.0	6393651	N	3550B	8015M	III
31-Aug-2011	SL-201-SA6-SB-2.0-3.0	6393651	N	3550B	8082	III
31-Aug-2011	SL-201-SA6-SB-2.0-3.0	6393651	N	3550B	8270C	III
31-Aug-2011	SL-201-SA6-SB-2.0-3.0	6393651	N	3550B	8270C SIM	III
31-Aug-2011	SL-201-SA6-SB-2.0-3.0	6393651	N	5035	8015M	III
31-Aug-2011	SL-201-SA6-SB-2.0-3.0	6393651	N	8330	8330A	III
31-Aug-2011	SL-201-SA6-SB-2.0-3.0	6393651	N	METHOD	300.0	III
31-Aug-2011	SL-201-SA6-SB-2.0-3.0	6393651	N	METHOD	314.0	III
31-Aug-2011	SL-201-SA6-SB-2.0-3.0	6393651	N	METHOD	6850	III
31-Aug-2011	SL-201-SA6-SB-2.0-3.0	6393651	N	METHOD	7471A	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
31-Aug-2011	SL-201-SA6-SB-2.0-3.0	6393651	N	METHOD	8015B	III
31-Aug-2011	SL-201-SA6-SB-2.0-3.0	6393651	N	METHOD	8015M	III
31-Aug-2011	SL-201-SA6-SB-2.0-3.0	6393651	N	METHOD	8315A	III
31-Aug-2011	SL-201-SA6-SB-2.0-3.0	6393651	N	METHOD	9012B	III
31-Aug-2011	SL-270-SA6-SB-2.0-3.0	6393653	N	3050B	6010B	III
31-Aug-2011	SL-270-SA6-SB-2.0-3.0	6393653	N	3050B	6020	III
31-Aug-2011	SL-270-SA6-SB-2.0-3.0	6393653	N	3060A	7199	III
31-Aug-2011	SL-270-SA6-SB-2.0-3.0	6393653	N	3546	1625C	III
31-Aug-2011	SL-270-SA6-SB-2.0-3.0	6393653	N	3550B	8015B	III
31-Aug-2011	SL-270-SA6-SB-2.0-3.0	6393653	N	3550B	8015M	III
31-Aug-2011	SL-270-SA6-SB-2.0-3.0	6393653	N	3550B	8082	III
31-Aug-2011	SL-270-SA6-SB-2.0-3.0	6393653	N	3550B	8270C	III
31-Aug-2011	SL-270-SA6-SB-2.0-3.0	6393653	N	3550B	8270C SIM	III
31-Aug-2011	SL-270-SA6-SB-2.0-3.0	6393653	N	5035	8015M	III
31-Aug-2011	SL-270-SA6-SB-2.0-3.0	6393653	N	8330	8330A	III
31-Aug-2011	SL-270-SA6-SB-2.0-3.0	6393653	N	METHOD	300.0	III
31-Aug-2011	SL-270-SA6-SB-2.0-3.0	6393653	N	METHOD	314.0	III
31-Aug-2011	SL-270-SA6-SB-2.0-3.0	6393653	N	METHOD	7471A	III
31-Aug-2011	SL-270-SA6-SB-2.0-3.0	6393653	N	METHOD	8015B	III
31-Aug-2011	SL-270-SA6-SB-2.0-3.0	6393653	N	METHOD	8015M	III
31-Aug-2011	SL-270-SA6-SB-2.0-3.0	6393653	N	METHOD	8315A	III
31-Aug-2011	SL-270-SA6-SB-2.0-3.0	6393653	N	METHOD	9012B	III
31-Aug-2011	SL-199-SA6-SB-4.0-5.0	6393649	N	3050B	6010B	III
31-Aug-2011	SL-199-SA6-SB-4.0-5.0	6393649	N	3050B	6020	III
31-Aug-2011	SL-199-SA6-SB-4.0-5.0	6393649	N	3060A	7199	III
31-Aug-2011	SL-199-SA6-SB-4.0-5.0	6393649	N	3546	1625C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
31-Aug-2011	SL-199-SA6-SB-4.0-5.0	6393649	N	3550B	8015B	III
31-Aug-2011	SL-199-SA6-SB-4.0-5.0	6393649	N	3550B	8015M	III
31-Aug-2011	SL-199-SA6-SB-4.0-5.0	6393649	N	3550B	8082	III
31-Aug-2011	SL-199-SA6-SB-4.0-5.0	6393649	N	3550B	8270C	III
31-Aug-2011	SL-199-SA6-SB-4.0-5.0	6393649	N	3550B	8270C SIM	III
31-Aug-2011	SL-199-SA6-SB-4.0-5.0	6393649	N	5035	8015M	III
31-Aug-2011	SL-199-SA6-SB-4.0-5.0	6393649	N	8330	8330A	III
31-Aug-2011	SL-199-SA6-SB-4.0-5.0	6393649	N	METHOD	300.0	III
31-Aug-2011	SL-199-SA6-SB-4.0-5.0	6393649	N	METHOD	314.0	III
31-Aug-2011	SL-199-SA6-SB-4.0-5.0	6393649	N	METHOD	7471A	III
31-Aug-2011	SL-199-SA6-SB-4.0-5.0	6393649	N	METHOD	8015B	III
31-Aug-2011	SL-199-SA6-SB-4.0-5.0	6393649	N	METHOD	8015M	III
31-Aug-2011	SL-199-SA6-SB-4.0-5.0	6393649	N	METHOD	8315A	III
31-Aug-2011	SL-199-SA6-SB-4.0-5.0	6393649	N	METHOD	9012B	III
31-Aug-2011	SL-200-SA6-SB-4.0-5.0	6393650	N	3050B	6010B	III
31-Aug-2011	SL-200-SA6-SB-4.0-5.0	6393650	N	3050B	6020	III
31-Aug-2011	SL-200-SA6-SB-4.0-5.0	6393650	N	3060A	7199	III
31-Aug-2011	SL-200-SA6-SB-4.0-5.0	6393650	N	3546	1625C	III
31-Aug-2011	SL-200-SA6-SB-4.0-5.0	6393650	N	3550B	8015B	III
31-Aug-2011	SL-200-SA6-SB-4.0-5.0	6393650	N	3550B	8015M	III
31-Aug-2011	SL-200-SA6-SB-4.0-5.0	6393650	N	3550B	8082	III
31-Aug-2011	SL-200-SA6-SB-4.0-5.0	6393650	N	3550B	8270C	III
31-Aug-2011	SL-200-SA6-SB-4.0-5.0	6393650	N	3550B	8270C SIM	III
31-Aug-2011	SL-200-SA6-SB-4.0-5.0	6393650	N	5035	8015M	III
31-Aug-2011	SL-200-SA6-SB-4.0-5.0	6393650	N	8330	8330A	III
31-Aug-2011	SL-200-SA6-SB-4.0-5.0	6393650	N	METHOD	300.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
31-Aug-2011	SL-200-SA6-SB-4.0-5.0	6393650	N	METHOD	314.0	III
31-Aug-2011	SL-200-SA6-SB-4.0-5.0	6393650	N	METHOD	6850	III
31-Aug-2011	SL-200-SA6-SB-4.0-5.0	6393650	N	METHOD	7471A	III
31-Aug-2011	SL-200-SA6-SB-4.0-5.0	6393650	N	METHOD	8015B	III
31-Aug-2011	SL-200-SA6-SB-4.0-5.0	6393650	N	METHOD	8015M	III
31-Aug-2011	SL-200-SA6-SB-4.0-5.0	6393650	N	METHOD	8315A	III
31-Aug-2011	SL-200-SA6-SB-4.0-5.0	6393650	N	METHOD	9012B	III
31-Aug-2011	SL-200-SA6-SB-4.0-5.0MSD	P393650M241912A	MSD	METHOD	6850	III
31-Aug-2011	SL-200-SA6-SB-4.0-5.0MS	P393650R241859A	MS	METHOD	6850	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE236

Laboratory: LL

EDD Filename: PrepDE236_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-198-SA6-SB-4.0-5.0 Collected: 8/31/2011 8:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.1		0.82	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	0.88	J	0.82	MDL	1.5	PQL	mg/Kg	J	Z, Q

Sample ID: SL-198-SA6-SB-9.0-10.0 Collected: 8/31/2011 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	1.1		0.87	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.8		0.87	MDL	1.6	PQL	mg/Kg	J	Q

Sample ID: SL-199-SA6-SB-4.0-5.0 Collected: 8/31/2011 12:28:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.89	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	3.1		0.89	MDL	1.7	PQL	mg/Kg	J	Q

Sample ID: SL-200-SA6-SB-4.0-5.0 Collected: 8/31/2011 2:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.90	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	3.5		0.90	MDL	1.7	PQL	mg/Kg	J	Q

Sample ID: SL-201-SA6-SB-2.0-3.0 Collected: 8/31/2011 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	2.7		0.85	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.0	J	0.85	MDL	1.6	PQL	mg/Kg	J	Z, Q

Sample ID: SL-213-SA6-SB-4.0-5.0 Collected: 8/31/2011 9:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.0		0.85	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	2.5		0.85	MDL	1.6	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

1/6/2012 7:18:42 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE236

Laboratory: LL

EDD Filename: PrepDE236_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM								
Method:	300.0	Matrix:	SO						

Sample ID: SL-270-SA6-SB-2.0-3.0 Collected: 8/31/2011 11:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.85	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	2.2		0.85	MDL	1.6	PQL	mg/Kg	J	Q

Method Category:	METALS								
Method:	6010B	Matrix:	SO						

Sample ID: SL-198-SA6-SB-4.0-5.0 Collected: 8/31/2011 8:25:00 Analysis Type: REA2 Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	31900		13.2	MDL	101	PQL	mg/Kg	J	E

Sample ID: SL-198-SA6-SB-4.0-5.0 Collected: 8/31/2011 8:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.40	J	0.365	MDL	5.07	PQL	mg/Kg	J	Z
PHOSPHORUS	341		0.355	MDL	10.1	PQL	mg/Kg	J	E
POTASSIUM	4250		11.5	MDL	50.7	PQL	mg/Kg	J	Q
TIN	2.79	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	4.92	J	0.466	MDL	5.07	PQL	mg/Kg	J	Z

Sample ID: SL-198-SA6-SB-9.0-10.0 Collected: 8/31/2011 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
BORON	2.53	J	0.382	MDL	5.31	PQL	mg/Kg	J	Z
IRON	23000		2.77	MDL	21.2	PQL	mg/Kg	J	E
PHOSPHORUS	464		0.372	MDL	10.6	PQL	mg/Kg	J	E
POTASSIUM	3760		12.0	MDL	53.1	PQL	mg/Kg	J	Q
TIN	2.63	J	0.340	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	3.95	J	0.489	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA6-SB-4.0-5.0 Collected: 8/31/2011 12:28:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	21500		2.78	MDL	21.3	PQL	mg/Kg	J	E
PHOSPHORUS	375		0.372	MDL	10.6	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: DE236

Laboratory: LL

EDD Filename: PrepDE236_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-199-SA6-SB-4.0-5.0			Collected: 8/31/2011 12:28:00			Analysis Type: RES		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3810		12.0	MDL	53.2	PQL	mg/Kg	J	Q
TIN	2.72	J	0.340	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.68	J	0.489	MDL	5.32	PQL	mg/Kg	J	Z

Sample ID: SL-200-SA6-SB-4.0-5.0			Collected: 8/31/2011 2:50:00			Analysis Type: RES		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	23900		2.85	MDL	21.8	PQL	mg/Kg	J	E
PHOSPHORUS	392		0.382	MDL	10.9	PQL	mg/Kg	J	E
POTASSIUM	3650		12.3	MDL	54.5	PQL	mg/Kg	J	Q
SODIUM	103	J	6.49	MDL	109	PQL	mg/Kg	J	Z
TIN	2.97	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.00	J	0.502	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-201-SA6-SB-2.0-3.0			Collected: 8/31/2011 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
IRON	20900		2.70	MDL	20.7	PQL	mg/Kg	J	E
PHOSPHORUS	288		0.362	MDL	10.4	PQL	mg/Kg	J	E
POTASSIUM	3420		11.7	MDL	51.8	PQL	mg/Kg	J	Q
TIN	2.75	J	0.331	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.68	J	0.476	MDL	5.18	PQL	mg/Kg	J	Z

Sample ID: SL-213-SA6-SB-4.0-5.0			Collected: 8/31/2011 9:45:00			Analysis Type: RES		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	23400		2.72	MDL	20.9	PQL	mg/Kg	J	E
PHOSPHORUS	425		0.365	MDL	10.4	PQL	mg/Kg	J	E
POTASSIUM	4060		11.8	MDL	52.2	PQL	mg/Kg	J	Q
TIN	2.88	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.48	J	0.480	MDL	5.22	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: DE236

Laboratory: LL

EDD Filename: PrepDE236_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-270-SA6-SB-2.0-3.0 Collected: 8/31/2011 11:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19200		2.69	MDL	20.6	PQL	mg/Kg	J	E
PHOSPHORUS	276		0.360	MDL	10.3	PQL	mg/Kg	J	E
POTASSIUM	2970		11.6	MDL	51.5	PQL	mg/Kg	J	Q
TIN	2.71	J	0.329	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.10	J	0.474	MDL	5.15	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-198-SA6-SB-4.0-5.0 Collected: 8/31/2011 8:25:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.195	J	0.0599	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-198-SA6-SB-4.0-5.0 Collected: 8/31/2011 8:25:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.591		0.0517	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-198-SA6-SB-4.0-5.0 Collected: 8/31/2011 8:25:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	131		0.110	MDL	0.413	PQL	mg/Kg	J	E

Sample ID: SL-198-SA6-SB-4.0-5.0 Collected: 8/31/2011 8:25:00 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		0.0765	MDL	0.207	PQL	mg/Kg	J	Q
ARSENIC	8.28		0.0827	MDL	0.413	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.903		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CADMIUM	0.276		0.0455	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	36.1		0.124	MDL	0.413	PQL	mg/Kg	J	Q
COBALT	10.2		0.0207	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	16.8		0.0827	MDL	0.413	PQL	mg/Kg	J	Q, E
LEAD	9.74		0.0105	MDL	0.207	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

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Data Qualifier Summary

Lab Reporting Batch ID: DE236

Laboratory: LL

EDD Filename: PrepDE236_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6020 **Matrix:** SO

Sample ID: SL-198-SA6-SB-4.0-5.0 Collected: 8/31/2011 8:25:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	24.3		0.103	MDL	0.413	PQL	mg/Kg	J	Q, E
SILVER	0.0623	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z, Q
THALLIUM	0.358		0.0310	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	66.2		0.0227	MDL	0.103	PQL	mg/Kg	J	Q
ZINC	73.7		0.579	MDL	3.10	PQL	mg/Kg	J	E

Sample ID: SL-198-SA6-SB-9.0-10.0 Collected: 8/31/2011 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	0.382	J	0.0628	MDL	0.433	PQL	mg/Kg	J	Z

Sample ID: SL-198-SA6-SB-9.0-10.0 Collected: 8/31/2011 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	1.01		0.0542	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-198-SA6-SB-9.0-10.0 Collected: 8/31/2011 8:35:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	138		0.115	MDL	0.433	PQL	mg/Kg	J	E

Sample ID: SL-198-SA6-SB-9.0-10.0 Collected: 8/31/2011 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	0.270		0.0802	MDL	0.217	PQL	mg/Kg	J	Q
ARSENIC	8.29		0.0867	MDL	0.433	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.805		0.0173	MDL	0.108	PQL	mg/Kg	J	Q
CADMIUM	0.345		0.0477	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	33.3		0.130	MDL	0.433	PQL	mg/Kg	J	Q
COBALT	11.4		0.0217	MDL	0.108	PQL	mg/Kg	J	Q, E
COPPER	18.4		0.0867	MDL	0.433	PQL	mg/Kg	J	Q, E
LEAD	9.75		0.0110	MDL	0.217	PQL	mg/Kg	J	Q, E
NICKEL	27.2		0.108	MDL	0.433	PQL	mg/Kg	J	Q, E
SILVER	0.108		0.0154	MDL	0.108	PQL	mg/Kg	J	Q
THALLIUM	0.341		0.0325	MDL	0.108	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: DE236

Laboratory: LL

EDD Filename: PrepDE236_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-198-SA6-SB-9.0-10.0	Collected: 8/31/2011 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
VANADIUM	63.8		0.0238	MDL	0.108	PQL	mg/Kg	J	Q
ZINC	80.1		0.607	MDL	3.25	PQL	mg/Kg	J	E

Sample ID: SL-199-SA6-SB-4.0-5.0	Collected: 8/31/2011 12:28:00	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	0.0611	MDL	0.421	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA6-SB-4.0-5.0	Collected: 8/31/2011 12:28:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.915		0.0527	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-199-SA6-SB-4.0-5.0	Collected: 8/31/2011 12:28:00	Analysis Type: REA3	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	159		0.112	MDL	0.421	PQL	mg/Kg	J	E

Sample ID: SL-199-SA6-SB-4.0-5.0	Collected: 8/31/2011 12:28:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.134	J	0.0779	MDL	0.211	PQL	mg/Kg	J	Z, Q
ARSENIC	6.17		0.0843	MDL	0.421	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.934		0.0169	MDL	0.105	PQL	mg/Kg	J	Q
CADMIUM	0.259		0.0463	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	24.3		0.126	MDL	0.421	PQL	mg/Kg	J	Q
COBALT	8.33		0.0211	MDL	0.105	PQL	mg/Kg	J	Q, E
COPPER	14.2		0.0843	MDL	0.421	PQL	mg/Kg	J	Q, E
LEAD	7.95		0.0107	MDL	0.211	PQL	mg/Kg	J	Q, E
NICKEL	18.7		0.105	MDL	0.421	PQL	mg/Kg	J	Q, E
SILVER	0.0629	J	0.0150	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.428		0.0316	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	49.4		0.0232	MDL	0.105	PQL	mg/Kg	J	Q
ZINC	84.0		0.590	MDL	3.16	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: DE236

Laboratory: LL

EDD Filename: PrepDE236_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-200-SA6-SB-4.0-5.0 Collected: 8/31/2011 2:50:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.110	J	0.0626	MDL	0.432	PQL	mg/Kg	J	Z

Sample ID: SL-200-SA6-SB-4.0-5.0 Collected: 8/31/2011 2:50:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.680		0.0540	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-200-SA6-SB-4.0-5.0 Collected: 8/31/2011 2:50:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	141		0.114	MDL	0.432	PQL	mg/Kg	J	E

Sample ID: SL-200-SA6-SB-4.0-5.0 Collected: 8/31/2011 2:50:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.156	J	0.0799	MDL	0.216	PQL	mg/Kg	J	Z, Q
ARSENIC	7.12		0.0864	MDL	0.432	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.869		0.0173	MDL	0.108	PQL	mg/Kg	J	Q
CADMIUM	0.183		0.0475	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	26.2		0.130	MDL	0.432	PQL	mg/Kg	J	Q
COBALT	7.08		0.0216	MDL	0.108	PQL	mg/Kg	J	Q, E
COPPER	13.5		0.0864	MDL	0.432	PQL	mg/Kg	J	Q, E
LEAD	7.75		0.0110	MDL	0.216	PQL	mg/Kg	J	Q, E
NICKEL	18.1		0.108	MDL	0.432	PQL	mg/Kg	J	Q, E
SILVER	0.0467	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.405		0.0324	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	50.6		0.0238	MDL	0.108	PQL	mg/Kg	J	Q
ZINC	76.6		0.605	MDL	3.24	PQL	mg/Kg	J	E

Sample ID: SL-201-SA6-SB-2.0-3.0 Collected: 8/31/2011 10:50:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.928		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

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Data Qualifier Summary

Lab Reporting Batch ID: DE236

Laboratory: LL

EDD Filename: PrepDE236_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-201-SA6-SB-2.0-3.0 Collected: 8/31/2011 10:50:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIIUM	129		0.107	MDL	0.402	PQL	mg/Kg	J	E

Sample ID: SL-201-SA6-SB-2.0-3.0 Collected: 8/31/2011 10:50:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.322		0.0744	MDL	0.201	PQL	mg/Kg	J	Q
ARSENIC	8.69		0.0805	MDL	0.402	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.903		0.0161	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.151		0.0443	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	25.3		0.121	MDL	0.402	PQL	mg/Kg	J	Q
COBALT	8.83		0.0201	MDL	0.101	PQL	mg/Kg	J	Q, E
COPPER	13.5		0.0805	MDL	0.402	PQL	mg/Kg	J	Q, E
LEAD	8.84		0.0103	MDL	0.201	PQL	mg/Kg	J	Q, E
NICKEL	18.4		0.101	MDL	0.402	PQL	mg/Kg	J	Q, E
SILVER	0.0431	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.366		0.0302	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	49.4		0.0221	MDL	0.101	PQL	mg/Kg	J	Q
ZINC	75.0		0.563	MDL	3.02	PQL	mg/Kg	J	E

Sample ID: SL-213-SA6-SB-4.0-5.0 Collected: 8/31/2011 9:45:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.235	J	0.0624	MDL	0.430	PQL	mg/Kg	J	Z

Sample ID: SL-213-SA6-SB-4.0-5.0 Collected: 8/31/2011 9:45:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.949		0.0538	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-213-SA6-SB-4.0-5.0 Collected: 8/31/2011 9:45:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIIUM	111		0.114	MDL	0.430	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: DE236

Laboratory: LL

EDD Filename: PrepDE236_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-213-SA6-SB-4.0-5.0	Collected: 8/31/2011 9:45:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.154	J	0.0796	MDL	0.215	PQL	mg/Kg	J	Z, Q
ARSENIC	8.11		0.0860	MDL	0.430	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.934		0.0172	MDL	0.108	PQL	mg/Kg	J	Q
CADMIUM	0.118		0.0473	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	27.9		0.129	MDL	0.430	PQL	mg/Kg	J	Q
COBALT	8.82		0.0215	MDL	0.108	PQL	mg/Kg	J	Q, E
COPPER	15.5		0.0860	MDL	0.430	PQL	mg/Kg	J	Q, E
LEAD	8.44		0.0110	MDL	0.215	PQL	mg/Kg	J	Q, E
NICKEL	18.0		0.108	MDL	0.430	PQL	mg/Kg	J	Q, E
SILVER	0.0516	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.425		0.0323	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	52.7		0.0237	MDL	0.108	PQL	mg/Kg	J	Q
ZINC	81.5		0.602	MDL	3.23	PQL	mg/Kg	J	E

Sample ID: SL-270-SA6-SB-2.0-3.0	Collected: 8/31/2011 11:40:00	Analysis Type: REA	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.148	J	0.0591	MDL	0.408	PQL	mg/Kg	J	Z

Sample ID: SL-270-SA6-SB-2.0-3.0	Collected: 8/31/2011 11:40:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.655		0.0510	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-270-SA6-SB-2.0-3.0	Collected: 8/31/2011 11:40:00	Analysis Type: REA3	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	114		0.108	MDL	0.408	PQL	mg/Kg	J	E

Sample ID: SL-270-SA6-SB-2.0-3.0	Collected: 8/31/2011 11:40:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.111	J	0.0755	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	4.26		0.0816	MDL	0.408	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.669		0.0163	MDL	0.102	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: DE236

Laboratory: LL

EDD Filename: PrepDE236_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-270-SA6-SB-2.0-3.0 Collected: 8/31/2011 11:40:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.126		0.0449	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	17.9		0.122	MDL	0.408	PQL	mg/Kg	J	Q
COBALT	5.82		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, E
COPPER	9.61		0.0816	MDL	0.408	PQL	mg/Kg	J	Q, E
LEAD	5.66		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, E
NICKEL	12.5		0.102	MDL	0.408	PQL	mg/Kg	J	Q, E
SILVER	0.0557	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.301		0.0306	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	36.1		0.0224	MDL	0.102	PQL	mg/Kg	J	Q
ZINC	64.3		0.571	MDL	3.06	PQL	mg/Kg	J	E

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-198-SA6-SB-4.0-5.0 Collected: 8/31/2011 8:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.28	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-198-SA6-SB-9.0-10.0 Collected: 8/31/2011 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
HEXAVALENT CHROMIUM	0.31	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA6-SB-4.0-5.0 Collected: 8/31/2011 12:28:00 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-200-SA6-SB-4.0-5.0 Collected: 8/31/2011 2:50:00 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	0.22	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: DE236

Laboratory: LL

EDD Filename: PrepDE236_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-201-SA6-SB-2.0-3.0	Collected: 8/31/2011 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	0.44	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-213-SA6-SB-4.0-5.0	Collected: 8/31/2011 9:45:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.46	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-270-SA6-SB-2.0-3.0	Collected: 8/31/2011 11:40:00	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	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-198-SA6-SB-4.0-5.0	Collected: 8/31/2011 8:25:00	Analysis Type: REA2	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.42	U	0.42	MDL	1.3	PQL	mg/Kg	UJ	H
EFH (C15-C20)	2.1		0.42	MDL	1.3	PQL	mg/Kg	J	H
EFH (C21-C30)	5.6		0.42	MDL	1.3	PQL	mg/Kg	J	H
EFH (C30-C40)	5.4		0.42	MDL	1.3	PQL	mg/Kg	J	H, Q, Q
EFH (C8-C11)	0.42	U	0.42	MDL	1.3	PQL	mg/Kg	UJ	H

Sample ID: SL-198-SA6-SB-4.0-5.0	Collected: 8/31/2011 8:25:00	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

Sample ID: SL-198-SA6-SB-9.0-10.0	Collected: 8/31/2011 8:35:00	Analysis Type: REA2	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.44	U	0.44	MDL	1.3	PQL	mg/Kg	UJ	H
EFH (C15-C20)	0.44	U	0.44	MDL	1.3	PQL	mg/Kg	UJ	H
EFH (C21-C30)	1.5		0.44	MDL	1.3	PQL	mg/Kg	J	H

* 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: DE236

Laboratory: LL

EDD Filename: PrepDE236_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-198-SA6-SB-9.0-10.0	Collected: 8/31/2011 8:35:00	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)	6.5		0.44	MDL	1.3	PQL	mg/Kg	J	H
EFH (C8-C11)	0.44	U	0.44	MDL	1.3	PQL	mg/Kg	UJ	H

Sample ID: SL-199-SA6-SB-4.0-5.0	Collected: 8/31/2011 12:28:00	Analysis Type: REA2	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.44	U	0.44	MDL	1.3	PQL	mg/Kg	UJ	H
EFH (C15-C20)	0.44	U	0.44	MDL	1.3	PQL	mg/Kg	UJ	H
EFH (C21-C30)	0.44	U	0.44	MDL	1.3	PQL	mg/Kg	UJ	H
EFH (C30-C40)	0.44	U	0.44	MDL	1.3	PQL	mg/Kg	UJ	H
EFH (C8-C11)	0.44	U	0.44	MDL	1.3	PQL	mg/Kg	UJ	H

Sample ID: SL-201-SA6-SB-2.0-3.0	Collected: 8/31/2011 10:50:00	Analysis Type: REA2	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.42	U	0.42	MDL	1.3	PQL	mg/Kg	UJ	H
EFH (C15-C20)	0.42	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z, H
EFH (C21-C30)	3.8		0.42	MDL	1.3	PQL	mg/Kg	J	H
EFH (C30-C40)	12		0.42	MDL	1.3	PQL	mg/Kg	J	H
EFH (C8-C11)	0.42	U	0.42	MDL	1.3	PQL	mg/Kg	UJ	H

Sample ID: SL-213-SA6-SB-4.0-5.0	Collected: 8/31/2011 9:45:00	Analysis Type: REA2	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.43	U	0.43	MDL	1.3	PQL	mg/Kg	UJ	H
EFH (C15-C20)	0.43	U	0.43	MDL	1.3	PQL	mg/Kg	UJ	H
EFH (C21-C30)	0.43	U	0.43	MDL	1.3	PQL	mg/Kg	UJ	H
EFH (C30-C40)	0.93	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z, H
EFH (C8-C11)	0.43	U	0.43	MDL	1.3	PQL	mg/Kg	UJ	H

Sample ID: SL-270-SA6-SB-2.0-3.0	Collected: 8/31/2011 11:40:00	Analysis Type: REA2	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.42	U	0.42	MDL	1.3	PQL	mg/Kg	UJ	H
EFH (C15-C20)	0.42	U	0.42	MDL	1.3	PQL	mg/Kg	UJ	H

* 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: DE236

Laboratory: LL

EDD Filename: PrepDE236_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-270-SA6-SB-2.0-3.0 Collected: 8/31/2011 11:40:00 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)	0.42	U	0.42	MDL	1.3	PQL	mg/Kg	UJ	H
EFH (C30-C40)	0.96	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z, H
EFH (C8-C11)	0.42	U	0.42	MDL	1.3	PQL	mg/Kg	UJ	H

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-198-SA6-SB-4.0-5.0 Collected: 8/31/2011 8:25:00 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 1254	0.51	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.69	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E
Aroclor 5460	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E

Sample ID: SL-198-SA6-SB-9.0-10.0 Collected: 8/31/2011 8:35:00 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 1254	0.62	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E

Sample ID: SL-199-SA6-SB-4.0-5.0 Collected: 8/31/2011 12:28:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E

Sample ID: SL-200-SA6-SB-4.0-5.0 Collected: 8/31/2011 2:50:00 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	0.57	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: DE236

Laboratory: LL

EDD Filename: PrepDE236_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8082	Matrix:	SO
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Sample ID: SL-200-SA6-SB-4.0-5.0 Collected: 8/31/2011 2:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E

Sample ID: SL-201-SA6-SB-2.0-3.0 Collected: 8/31/2011 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	0.91	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5442	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5460	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	E

Sample ID: SL-213-SA6-SB-4.0-5.0 Collected: 8/31/2011 9:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E

Sample ID: SL-270-SA6-SB-2.0-3.0 Collected: 8/31/2011 11:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E

Method Category:	SVOA	Method:	8270C	Matrix:	SO
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Sample ID: SL-199-SA6-SB-4.0-5.0 Collected: 8/31/2011 12:28:00 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	23	J	18	MDL	360	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: DE236

Laboratory: LL

EDD Filename: PrepDE236_v2

eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-198-SA6-SB-4.0-5.0 Collected: 8/31/2011 8:25:00 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(B)FLUORANTHENE	0.91	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-198-SA6-SB-9.0-10.0 Collected: 8/31/2011 8:35:00 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	1.0	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.2	J	6.6	MDL	20	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-270-SA6-SB-2.0-3.0 Collected: 8/31/2011 11:40:00 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	0.56	J	0.35	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: DE236

Laboratory: LL

EDD Filename: PrepDE236_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
	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
F	Equipment Blank Contamination

* 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: DE236

Laboratory: LL

EDD Filename: PrepDE236_v2

eQAPP Name: CDM_SSFL_110509

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
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* 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: DE236

Laboratory: LL

EDD Filename: PrepDE236_v2

eQAPP Name: CDM_SSFL_110509

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

DE236

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE236

EDD Filename: DE236_v2.

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 8015M	Preparation Method: 3550B
Matrix: SO	

Sample ID	Type	Actual	Criteria	Units	Flag
SL-198-SA6-SB-4.0-5.0 (REA2)	Sampling To Extraction	17.00	14.00	DAYS	J (all detects) UJ (all non-detects)
SL-198-SA6-SB-4.0-5.0 (REA2)		17.00	14.00	DAYS	
SL-198-SA6-SB-9.0-10.0 (REA2)		17.00	14.00	DAYS	
SL-198-SA6-SB-9.0-10.0 (REA2)		17.00	14.00	DAYS	
SL-199-SA6-SB-4.0-5.0 (REA2)		17.00	14.00	DAYS	
SL-199-SA6-SB-4.0-5.0 (REA2)		17.00	14.00	DAYS	
SL-201-SA6-SB-2.0-3.0 (REA2)		17.00	14.00	DAYS	
SL-201-SA6-SB-2.0-3.0 (REA2)		17.00	14.00	DAYS	
SL-213-SA6-SB-4.0-5.0 (REA2)		17.00	14.00	DAYS	
SL-213-SA6-SB-4.0-5.0 (REA2)		17.00	14.00	DAYS	
SL-270-SA6-SB-2.0-3.0 (REA2)		17.00	14.00	DAYS	
SL-270-SA6-SB-2.0-3.0 (REA2)		17.00	14.00	DAYS	

Method Blank Outlier Report

Lab Reporting Batch ID: DE236

Laboratory: LL

EDD Filename: DE236_v2.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P24508DB221132	9/9/2011 11:32:00 AM	ALUMINUM	7.71 mg/Kg	SL-198-SA6-SB-4.0-5.0 SL-198-SA6-SB-9.0-10.0 SL-199-SA6-SB-4.0-5.0 SL-200-SA6-SB-4.0-5.0 SL-201-SA6-SB-2.0-3.0 SL-213-SA6-SB-4.0-5.0 SL-270-SA6-SB-2.0-3.0
P24508DB222015	9/6/2011 8:15:00 PM	CALCIUM IRON MANGANESE PHOSPHORUS STRONTIUM TIN	12.4 mg/Kg 3.99 mg/Kg 0.0660 mg/Kg 1.58 mg/Kg 0.0730 mg/Kg 1.88 mg/Kg	SL-198-SA6-SB-4.0-5.0 SL-198-SA6-SB-9.0-10.0 SL-199-SA6-SB-4.0-5.0 SL-200-SA6-SB-4.0-5.0 SL-201-SA6-SB-2.0-3.0 SL-213-SA6-SB-4.0-5.0 SL-270-SA6-SB-2.0-3.0

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-198-SA6-SB-4.0-5.0(RES)	TIN	2.79 mg/Kg	2.79U mg/Kg
SL-198-SA6-SB-9.0-10.0(RES)	TIN	2.63 mg/Kg	2.63U mg/Kg
SL-199-SA6-SB-4.0-5.0(RES)	TIN	2.72 mg/Kg	2.72U mg/Kg
SL-200-SA6-SB-4.0-5.0(RES)	TIN	2.97 mg/Kg	2.97U mg/Kg
SL-201-SA6-SB-2.0-3.0(RES)	TIN	2.75 mg/Kg	2.75U mg/Kg
SL-213-SA6-SB-4.0-5.0(RES)	TIN	2.88 mg/Kg	2.88U mg/Kg
SL-270-SA6-SB-2.0-3.0(RES)	TIN	2.71 mg/Kg	2.71U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P24526AB221047A	9/6/2011 10:47:00 AM	VANADIUM	0.0817 mg/Kg	SL-198-SA6-SB-4.0-5.0 SL-198-SA6-SB-9.0-10.0 SL-199-SA6-SB-4.0-5.0 SL-200-SA6-SB-4.0-5.0 SL-201-SA6-SB-2.0-3.0 SL-213-SA6-SB-4.0-5.0 SL-270-SA6-SB-2.0-3.0

Method: 8015M
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P55550AB322039A	9/14/2011 8:39:00 PM	EFH (C30-C40)	2.0 mg/Kg	SL-200-SA6-SB-4.0-5.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE236

Laboratory: LL

EDD Filename: DE236_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-198-SA6-SB-4.0-5.0MS SL-198-SA6-SB-4.0-5.0MSD (SL-198-SA6-SB-4.0-5.0)	DIETHYLENE GLYCOL	43	37	59.00-109.00	-	DIETHYLENE GLYCOL	J (all detects) UJ (all non-detects)
SL-198-SA6-SB-4.0-5.0MS SL-198-SA6-SB-4.0-5.0MSD (SL-198-SA6-SB-4.0-5.0)	EFH (C30-C40)	43	-39	49.00-123.00	37 (20.00)	EFH (C30-C40)	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-198-SA6-SB-4.0-5.0MS (SL-198-SA6-SB-4.0-5.0 SL-198-SA6-SB-9.0-10.0 SL-199-SA6-SB-4.0-5.0 SL-200-SA6-SB-4.0-5.0 SL-201-SA6-SB-2.0-3.0 SL-213-SA6-SB-4.0-5.0 SL-270-SA6-SB-2.0-3.0)	Nitrate-NO3	128	-	80.00-120.00	-	Nitrate-NO3	J(all detects)
SL-198-SA6-SB-4.0-5.0MS (SL-198-SA6-SB-4.0-5.0 SL-198-SA6-SB-9.0-10.0 SL-199-SA6-SB-4.0-5.0 SL-200-SA6-SB-4.0-5.0 SL-201-SA6-SB-2.0-3.0 SL-213-SA6-SB-4.0-5.0 SL-270-SA6-SB-2.0-3.0)	FLUORIDE	75	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE236

Laboratory: LL

EDD Filename: DE236_v2.

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-198-SA6-SB-4.0-5.0DUP (SL-198-SA6-SB-4.0-5.0 SL -198-SA6-SB-9.0-10.0 SL -199-SA6-SB-4.0-5.0 SL -200-SA6-SB-4.0-5.0 SL -201-SA6-SB-2.0-3.0 SL -213-SA6-SB-4.0-5.0 SL -270-SA6-SB-2.0-3.0)	FLUORIDE Nitrate-NO3	41 47	20.00 20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE236

Laboratory: LL

EDD Filename: DE236_v2.

eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12532AQ242123A P12532AY242141A (SL-198-SA6-SB-4.0-5.0 SL-198-SA6-SB-9.0-10.0 SL-199-SA6-SB-4.0-5.0 SL-200-SA6-SB-4.0-5.0 SL-201-SA6-SB-2.0-3.0 SL-213-SA6-SB-4.0-5.0 SL-270-SA6-SB-2.0-3.0)	Aroclor 5442	116	-	36.00-106.00	42 (30.00)	Aroclor 5442, 5432, 5460	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
P24526AQ221050A (SL-198-SA6-SB-4.0-5.0 SL-198-SA6-SB-9.0-10.0 SL-199-SA6-SB-4.0-5.0 SL-200-SA6-SB-4.0-5.0 SL-201-SA6-SB-2.0-3.0 SL-213-SA6-SB-4.0-5.0 SL-270-SA6-SB-2.0-3.0)	VANADIUM	124	-	80.00-120.00	-	VANADIUM	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
P24508DQ221136 P24508DQ222019 (SL-198-SA6-SB-4.0-5.0 SL-198-SA6-SB-9.0-10.0 SL-199-SA6-SB-4.0-5.0 SL-200-SA6-SB-4.0-5.0 SL-201-SA6-SB-2.0-3.0 SL-213-SA6-SB-4.0-5.0 SL-270-SA6-SB-2.0-3.0)	ALUMINUM IRON MAGNESIUM POTASSIUM	156 146 132 130	- - - -	80.00-120.00 80.00-120.00 80.00-120.00 80.00-120.00	- - - -	ALUMINUM IRON MAGNESIUM POTASSIUM	No Qual, SRM within QC Limits

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P1LCLCSQ260411 (SL-198-SA6-SB-4.0-5.0 SL-198-SA6-SB-9.0-10.0 SL-199-SA6-SB-4.0-5.0 SL-200-SA6-SB-4.0-5.0 SL-201-SA6-SB-2.0-3.0 SL-213-SA6-SB-4.0-5.0 SL-270-SA6-SB-2.0-3.0)	Diethylphthalate FLUORENE	140 126	- -	68.00-125.00 71.00-120.00	- -	Diethylphthalate FLUORENE	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: DE236

Laboratory: LL

EDD Filename: DE236_v2.

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-198-SA6-SB-4.0-5.0	Nitrate-NO3	J	0.88	1.5	PQL	mg/Kg	J (all detects)
SL-201-SA6-SB-2.0-3.0	Nitrate-NO3	J	1.0	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-198-SA6-SB-4.0-5.0	BORON	J	3.40	5.07	PQL	mg/Kg	J (all detects)
	TIN	J	2.79	10.1	PQL	mg/Kg	
	Zirconium	J	4.92	5.07	PQL	mg/Kg	
SL-198-SA6-SB-9.0-10.0	BORON	J	2.53	5.31	PQL	mg/Kg	J (all detects)
	TIN	J	2.63	10.6	PQL	mg/Kg	
	Zirconium	J	3.95	5.31	PQL	mg/Kg	
SL-199-SA6-SB-4.0-5.0	TIN	J	2.72	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.68	5.32	PQL	mg/Kg	
SL-200-SA6-SB-4.0-5.0	SODIUM	J	103	109	PQL	mg/Kg	J (all detects)
	TIN	J	2.97	10.9	PQL	mg/Kg	
	Zirconium	J	3.00	5.45	PQL	mg/Kg	
SL-201-SA6-SB-2.0-3.0	TIN	J	2.75	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.68	5.18	PQL	mg/Kg	
SL-213-SA6-SB-4.0-5.0	TIN	J	2.88	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.48	5.22	PQL	mg/Kg	
SL-270-SA6-SB-2.0-3.0	TIN	J	2.71	10.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.10	5.15	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-198-SA6-SB-4.0-5.0	SELENIUM	J	0.195	0.413	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0623	0.103	PQL	mg/Kg	
SL-198-SA6-SB-9.0-10.0	SELENIUM	J	0.382	0.433	PQL	mg/Kg	J (all detects)
SL-199-SA6-SB-4.0-5.0	ANTIMONY	J	0.134	0.211	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.138	0.421	PQL	mg/Kg	
	SILVER	J	0.0629	0.105	PQL	mg/Kg	
SL-200-SA6-SB-4.0-5.0	ANTIMONY	J	0.156	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.110	0.432	PQL	mg/Kg	
	SILVER	J	0.0467	0.108	PQL	mg/Kg	
SL-201-SA6-SB-2.0-3.0	SILVER	J	0.0431	0.101	PQL	mg/Kg	J (all detects)
SL-213-SA6-SB-4.0-5.0	ANTIMONY	J	0.154	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.235	0.430	PQL	mg/Kg	
	SILVER	J	0.0516	0.108	PQL	mg/Kg	
SL-270-SA6-SB-2.0-3.0	ANTIMONY	J	0.111	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.148	0.408	PQL	mg/Kg	
	SILVER	J	0.0557	0.102	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE236

Laboratory: LL

EDD Filename: DE236_v2.

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-198-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.28	1.0	PQL	mg/Kg	J (all detects)
SL-198-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.31	1.1	PQL	mg/Kg	J (all detects)
SL-199-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)
SL-200-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.38	1.1	PQL	mg/Kg	J (all detects)
SL-201-SA6-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.44	1.0	PQL	mg/Kg	J (all detects)
SL-213-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.46	1.1	PQL	mg/Kg	J (all detects)
SL-270-SA6-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.56	1.1	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-201-SA6-SB-2.0-3.0	EFH (C15-C20)	J	0.42	1.3	PQL	mg/Kg	J (all detects)
SL-213-SA6-SB-4.0-5.0	EFH (C30-C40)	J	0.93	1.3	PQL	mg/Kg	J (all detects)
SL-270-SA6-SB-2.0-3.0	EFH (C30-C40)	J	0.96	1.3	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-198-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.51	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.69	1.8	PQL	ug/Kg	J (all detects)
SL-198-SA6-SB-9.0-10.0	AROCLOR 1254	J	0.62	1.9	PQL	ug/Kg	J (all detects)
SL-200-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.57	1.9	PQL	ug/Kg	J (all detects)
SL-201-SA6-SB-2.0-3.0	AROCLOR 1260	J	0.91	1.8	PQL	ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-199-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	23	360	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-198-SA6-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	0.91	1.7	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE236

Laboratory: LL

EDD Filename: DE236_v2.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-198-SA6-SB-9.0-10.0	ANTHRACENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.5	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.2	20	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.3	1.8	PQL	ug/Kg	
SL-270-SA6-SB-2.0-3.0	CHRYSENE	J	0.56	1.8	PQL	ug/Kg	J (all detects)

LDC #: 26859F4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE236

ADR

Laboratory: Lancaster Laboratories

Date: 12/27/11

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 qual by ZCB/CCB
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	506 DE 237
VII.	Duplicate Sample Analysis	SW	
VIII.	Laboratory Control Samples (LCS)	NA	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	506 DE 237
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: 401

1	SL-198-SA6-SB-4.0-5.0	11	618	21		31	
2	SL-198-SA6-SB-9.0-10.0	12		22		32	
3	SL-199-SA6-SB-4.0-5.0	13		23		33	
4	SL-200-SA6-SB-4.0-5.0	14		24		34	
5	SL-201-SA6-SB-2.0-3.0	15		25		35	
6	SL-213-SA6-SB-4.0-5.0	16		26		36	
7	SL-270-SA6-SB-2.0-3.0	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____



QUALITY ASSURANCE SUMMARY
 FORM 5A (MS/MSD)
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE
 SDG No.: DE237
 Matrix: SOIL Level (Low/med): LOW

Background Lab Sample ID: 6395204BKG Matrix Spike Lab Sample ID: 6395205MS Matrix Spike Duplicate Lab Sample ID: 6395206MSD
 % Solids for Sample: 91.4
 Batch Id(s): P24508D, P24526A, P24511B, P25508A

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	20683.5992		23695.0305		24069.3389		214.5278	212.4450	MG/KG	1404	1594	2	20P		
Antimony	75	4.7758	B	0.8425		0.8660		1.2872	1.2999	MG/KG	50 N	52 N	3	20MS		
Arsenic	137	105.1390		7.7852		8.1353		2.1453	2.1665	MG/KG	140 N	155 N	4	20MS		
Barium	9	0.7504		1.7201		1.9468		10.7264	10.8326	MG/KG	152	329	15	20MS		
Beryllium	111	0.3824	U	220.9004		209.7618		0.8581	0.8666	MG/KG	113	138 N	12	20MS		
Boron	52	20.8812	B	1.2925		1.5590		214.5278	212.4450	MG/KG	103	99	5	20P		
Cadmium	59	5.8996		2721.1814		2724.3175		1.0726	1.0833	MG/KG	111	134 N	19	20MS		
Calcium	63	8.7719		32.9515		37.6541		429.0556	424.8901	MG/KG	128	130	0	20P		
Chromium	208	20164.8977		67.8766		75.7848		10.7264	10.8326	MG/KG	113	155 N	13	20MS		
Cobalt	60	256.7154		21.8175		25.3483		53.6320	54.1630	MG/KG	116	129 N	11	20MS		
Copper	98	0.0077	U	20775.0021		21210.9855		10.7264	10.8326	MG/KG	122	153 N	15	20MS		
Iron	60	5.4195		9.3856		10.8759		107.2639	106.2225	MG/KG	569	985	2	20P		
Lithium	60	23.1501		131.8939		131.2050		3.2179	3.2498	MG/KG	123	168 N	15	20MS		
Magnesium	60	4231.9199		4547.6059		4543.5629		107.2639	106.2225	MG/KG	101	102	1	20P		
Manganese	60	256.7154		324.6632		330.4975		214.5278	212.4450	MG/KG	147	147	0	20P		
Mercury	98	0.0077	U	0.1828		0.1828		53.6320	53.1113	MG/KG	127	139	2	20P		
Molybdenum	98	0.5228		12.9339		14.6067		0.1775	0.1724	MG/KG	103	106	0	20CV		
Nickel	60	13.5030		27.5239		31.8478		10.7264	10.8326	MG/KG	116	130 N	12	20MS		
Phosphorus	60	207.4728		332.0097		334.2451		10.7264	10.8326	MG/KG	131 N	169 N	15	20MS		
Potassium	60	2146.3417		3687.5413		3587.5029		107.2639	106.2225	MG/KG	116	119	1	20P		
Selenium	78	0.1267	B	2.6816		2.7731		1072.6391	1062.2252	MG/KG	144 N	136 N	3	20P		
Silver	107	0.0410	B	12.8137		14.0585		2.1453	2.1665	MG/KG	119	122	3	20MS		
Sodium	60	97.8883	B	1123.5219		1099.9140		10.7264	10.8326	MG/KG	119	129 N	9	20MS		
Strontium	203	23.6026		128.5730		125.9289		1072.6391	1062.2252	MG/KG	96	94	2	20P		
Thallium	203	0.2613		0.7965		0.8850		107.2639	106.2225	MG/KG	98	96	2	20P		
Tin	60	2.8500	B	384.5486		377.0910		0.4291	0.4333	MG/KG	125	144 N	11	20MS		
Titanium	60	1345.1630		1592.0453		1513.0414		429.0556	424.8901	MG/KG	89	88	2	20P		
Vanadium	51	41.5755		56.0561		62.5041		107.2639	108.3259	MG/KG	230	155	5	20P		
Zinc	66	52.7289		65.8815		75.5682		10.7264	10.8326	MG/KG	135 N	193 N	11	20MS		
Zirconium	60	2.3040	B	106.9636		104.8299		10.7264	10.8326	MG/KG	123	211	14	20MS		
								107.2639	106.2225	MG/KG	98	97	2	20P		

METHODS:
 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.: DE237

Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6395204BKG

Duplicate Lab Sample ID: 6395207DUP

% Solids for Duplicate: 91.4

% Solids for Sample: 91.4

Batch ID(s): P24508D, P24526A, P24511B, P25508A

JWJ

Concentration Units: MG/KG

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			20683.5992		20986.2188		1		P
Antimony	121		0.1952	B	0.1916	B	2		MS
Arsenic	75		4.7758		6.0037		23	*	MS
Barium	137		105.1390		143.2942		31	*	MS
Beryllium	9		0.7504		0.9080		19		MS
Boron			0.3824	U	0.3900	U			P
Cadmium	111	0.1	0.1045	B	0.1410		20		MS
Calcium			2173.7790		2180.1038		0		P
Chromium	52		20.8812		24.9835		18		MS
Cobalt	59		5.8996		7.3336		22	*	MS
Copper	63		8.7719		11.4444		26	*	MS
Iron			20164.8977		36380.7819		57	*	P
Lead	208		5.4195		6.8705		24	*	MS
Lithium			23.1501		23.2695		1		P
Magnesium			4231.9199		4308.9358		2		P
Manganese			256.7154		301.1201		16		P
Mercury			0.0077	U	0.0078	U			CV
Molybdenum	98	0.1	0.5228		0.6099		15		MS
Nickel	60		13.5030		17.0806		23	*	MS
Phosphorus			207.4728		273.2110		27	*	P
Potassium			2146.3417		2544.9043		17		P
Selenium	78		0.1267	B	0.0986	B	25		MS
Silver	107		0.0410	B	0.0488	B	17		MS
Sodium			97.8883	B	94.9618	B	3		P
Strontium			23.6026		22.3216		6		P
Thallium	203	0.1	0.2613		0.3244		22		MS
Tin			2.8500	B	2.8934	B	2		P
Titanium			1345.1630		1318.9204		2		P
Vanadium	51		41.5755		49.1810		17		MS
Zinc	66		52.7289		65.9854		22	*	MS
Zirconium			2.3040	B	2.6930	B	16		P

45X

45X

45X

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.

DE237 2388

<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

DE237

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
01-Sep-2011	TB-090111	6395213	TB	5030B	8015M	III
01-Sep-2011	SL-258-SA6-SB-0.0-0.83	6395203	N	3050B	6010B	III
01-Sep-2011	SL-258-SA6-SB-0.0-0.83	6395203	N	3050B	6020	III
01-Sep-2011	SL-258-SA6-SB-0.0-0.83	6395203	N	3060A	7199	III
01-Sep-2011	SL-258-SA6-SB-0.0-0.83	6395203	N	3546	1625C	III
01-Sep-2011	SL-258-SA6-SB-0.0-0.83	6395203	N	3550B	8015B	III
01-Sep-2011	SL-258-SA6-SB-0.0-0.83	6395203	N	3550B	8015M	III
01-Sep-2011	SL-258-SA6-SB-0.0-0.83	6395203	N	3550B	8082	III
01-Sep-2011	SL-258-SA6-SB-0.0-0.83	6395203	N	3550B	8270C	III
01-Sep-2011	SL-258-SA6-SB-0.0-0.83	6395203	N	3550B	8270C SIM	III
01-Sep-2011	SL-258-SA6-SB-0.0-0.83	6395203	N	5035	8015M	III
01-Sep-2011	SL-258-SA6-SB-0.0-0.83	6395203	N	8330	8330A	III
01-Sep-2011	SL-258-SA6-SB-0.0-0.83	6395203	N	METHOD	300.0	III
01-Sep-2011	SL-258-SA6-SB-0.0-0.83	6395203	N	METHOD	314.0	III
01-Sep-2011	SL-258-SA6-SB-0.0-0.83	6395203	N	METHOD	6850	III
01-Sep-2011	SL-258-SA6-SB-0.0-0.83	6395203	N	METHOD	7471A	III
01-Sep-2011	SL-258-SA6-SB-0.0-0.83	6395203	N	METHOD	8015B	III
01-Sep-2011	SL-258-SA6-SB-0.0-0.83	6395203	N	METHOD	8015M	III
01-Sep-2011	SL-258-SA6-SB-0.0-0.83	6395203	N	METHOD	8315A	III
01-Sep-2011	SL-258-SA6-SB-0.0-0.83	6395203	N	METHOD	9012B	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0	6395204	N	3050B	6010B	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0	6395204	N	3050B	6020	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0	6395204	N	3060A	7199	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0	6395204	N	3546	1625C	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0	6395204	N	3550B	8015B	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0	6395204	N	3550B	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Sep-2011	SL-262-SA6-SB-4.0-5.0	6395204	N	3550B	8082	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0	6395204	N	3550B	8270C	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0	6395204	N	3550B	8270C SIM	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0	6395204	N	5035	8015M	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0	6395204	N	8330	8330A	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0	6395204	N	METHOD	300.0	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0	6395204	N	METHOD	314.0	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0	6395204	N	METHOD	7471A	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0	6395204	N	METHOD	8015B	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0	6395204	N	METHOD	8015M	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0	6395204	N	METHOD	8315A	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0	6395204	N	METHOD	9012B	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MS	6395205	MS	3050B	6010B	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MS	6395205	MS	3050B	6020	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MS	6395205	MS	3060A	7199	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MS	6395205	MS	3546	1625C	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MS	6395205	MS	3550B	8015B	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MS	6395205	MS	3550B	8015M	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MS	6395205	MS	3550B	8082	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MS	6395205	MS	3550B	8270C	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MS	6395205	MS	3550B	8270C SIM	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MS	6395205	MS	5035	8015M	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MS	6395205	MS	8330	8330A	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MS	6395205	MS	METHOD	300.0	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MS	6395205	MS	METHOD	314.0	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MS	6395205	MS	METHOD	7471A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MS	6395205	MS	METHOD	8015B	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MS	6395205	MS	METHOD	8015M	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MS	6395205	MS	METHOD	8315A	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MS	6395205	MS	METHOD	9012B	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MSD	6395206	MSD	3050B	6010B	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MSD	6395206	MSD	3050B	6020	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MSD	6395206	MSD	3546	1625C	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MSD	6395206	MSD	3550B	8015B	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MSD	6395206	MSD	3550B	8015M	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MSD	6395206	MSD	3550B	8082	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MSD	6395206	MSD	3550B	8270C	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MSD	6395206	MSD	3550B	8270C SIM	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MSD	6395206	MSD	5035	8015M	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MSD	6395206	MSD	8330	8330A	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MSD	6395206	MSD	METHOD	7471A	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MSD	6395206	MSD	METHOD	8015B	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MSD	6395206	MSD	METHOD	8015M	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MSD	6395206	MSD	METHOD	8315A	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0DUP	6395207	DUP	3050B	6010B	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0DUP	6395207	DUP	3050B	6020	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0DUP	6395207	DUP	3060A	7199	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0DUP	6395207	DUP	METHOD	300.0	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0DUP	6395207	DUP	METHOD	314.0	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0DUP	6395207	DUP	METHOD	7471A	III
01-Sep-2011	SL-262-SA6-SB-4.0-5.0DUP	6395207	DUP	METHOD	9012B	III
01-Sep-2011	DUP14-SA6-QC-090111	6395212	FD	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Sep-2011	DUP14-SA6-QC-090111	6395212	FD	3050B	6020	III
01-Sep-2011	DUP14-SA6-QC-090111	6395212	FD	3060A	7199	III
01-Sep-2011	DUP14-SA6-QC-090111	6395212	FD	3546	1625C	III
01-Sep-2011	DUP14-SA6-QC-090111	6395212	FD	3550B	8015B	III
01-Sep-2011	DUP14-SA6-QC-090111	6395212	FD	3550B	8015M	III
01-Sep-2011	DUP14-SA6-QC-090111	6395212	FD	3550B	8082	III
01-Sep-2011	DUP14-SA6-QC-090111	6395212	FD	3550B	8270C	III
01-Sep-2011	DUP14-SA6-QC-090111	6395212	FD	3550B	8270C SIM	III
01-Sep-2011	DUP14-SA6-QC-090111	6395212	FD	5035	8015M	III
01-Sep-2011	DUP14-SA6-QC-090111	6395212	FD	8330	8330A	III
01-Sep-2011	DUP14-SA6-QC-090111	6395212	FD	METHOD	300.0	III
01-Sep-2011	DUP14-SA6-QC-090111	6395212	FD	METHOD	314.0	III
01-Sep-2011	DUP14-SA6-QC-090111	6395212	FD	METHOD	7471A	III
01-Sep-2011	DUP14-SA6-QC-090111	6395212	FD	METHOD	8015B	III
01-Sep-2011	DUP14-SA6-QC-090111	6395212	FD	METHOD	8015M	III
01-Sep-2011	DUP14-SA6-QC-090111	6395212	FD	METHOD	8315A	III
01-Sep-2011	DUP14-SA6-QC-090111	6395212	FD	METHOD	9012B	III
01-Sep-2011	SL-266-SA6-SB-4.0-5.0	6395211	N	3050B	6010B	III
01-Sep-2011	SL-266-SA6-SB-4.0-5.0	6395211	N	3050B	6020	III
01-Sep-2011	SL-266-SA6-SB-4.0-5.0	6395211	N	3060A	7199	III
01-Sep-2011	SL-266-SA6-SB-4.0-5.0	6395211	N	3546	1625C	III
01-Sep-2011	SL-266-SA6-SB-4.0-5.0	6395211	N	3550B	8015B	III
01-Sep-2011	SL-266-SA6-SB-4.0-5.0	6395211	N	3550B	8015M	III
01-Sep-2011	SL-266-SA6-SB-4.0-5.0	6395211	N	3550B	8082	III
01-Sep-2011	SL-266-SA6-SB-4.0-5.0	6395211	N	3550B	8270C	III
01-Sep-2011	SL-266-SA6-SB-4.0-5.0	6395211	N	3550B	8270C SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Sep-2011	SL-266-SA6-SB-4.0-5.0	6395211	N	5035	8015M	III
01-Sep-2011	SL-266-SA6-SB-4.0-5.0	6395211	N	8330	8330A	III
01-Sep-2011	SL-266-SA6-SB-4.0-5.0	6395211	N	METHOD	300.0	III
01-Sep-2011	SL-266-SA6-SB-4.0-5.0	6395211	N	METHOD	314.0	III
01-Sep-2011	SL-266-SA6-SB-4.0-5.0	6395211	N	METHOD	7471A	III
01-Sep-2011	SL-266-SA6-SB-4.0-5.0	6395211	N	METHOD	8015B	III
01-Sep-2011	SL-266-SA6-SB-4.0-5.0	6395211	N	METHOD	8015M	III
01-Sep-2011	SL-266-SA6-SB-4.0-5.0	6395211	N	METHOD	8315A	III
01-Sep-2011	SL-266-SA6-SB-4.0-5.0	6395211	N	METHOD	9012B	III
01-Sep-2011	SL-264-SA6-SB-0.4-1.4	6395210	N	3050B	6010B	III
01-Sep-2011	SL-264-SA6-SB-0.4-1.4	6395210	N	3050B	6020	III
01-Sep-2011	SL-264-SA6-SB-0.4-1.4	6395210	N	3060A	7199	III
01-Sep-2011	SL-264-SA6-SB-0.4-1.4	6395210	N	3546	1625C	III
01-Sep-2011	SL-264-SA6-SB-0.4-1.4	6395210	N	3550B	8015B	III
01-Sep-2011	SL-264-SA6-SB-0.4-1.4	6395210	N	3550B	8015M	III
01-Sep-2011	SL-264-SA6-SB-0.4-1.4	6395210	N	3550B	8082	III
01-Sep-2011	SL-264-SA6-SB-0.4-1.4	6395210	N	3550B	8270C	III
01-Sep-2011	SL-264-SA6-SB-0.4-1.4	6395210	N	3550B	8270C SIM	III
01-Sep-2011	SL-264-SA6-SB-0.4-1.4	6395210	N	5035	8015M	III
01-Sep-2011	SL-264-SA6-SB-0.4-1.4	6395210	N	8330	8330A	III
01-Sep-2011	SL-264-SA6-SB-0.4-1.4	6395210	N	METHOD	300.0	III
01-Sep-2011	SL-264-SA6-SB-0.4-1.4	6395210	N	METHOD	314.0	III
01-Sep-2011	SL-264-SA6-SB-0.4-1.4	6395210	N	METHOD	7471A	III
01-Sep-2011	SL-264-SA6-SB-0.4-1.4	6395210	N	METHOD	8015B	III
01-Sep-2011	SL-264-SA6-SB-0.4-1.4	6395210	N	METHOD	8015M	III
01-Sep-2011	SL-264-SA6-SB-0.4-1.4	6395210	N	METHOD	8315A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Sep-2011	SL-264-SA6-SB-0.4-1.4	6395210	N	METHOD	9012B	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE237

Laboratory: LL

EDD Filename: DE237_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: DUP14-SA6-QC-090111 Collected: 9/1/2011 9:23:00 AM 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		0.88	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.6	J	0.88	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-258-SA6-SB-0.0-0.83 Collected: 9/1/2011 8:08:00 AM 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		0.83	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	0.86	J	0.83	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-262-SA6-SB-4.0-5.0 Collected: 9/1/2011 9:15:00 AM 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		0.88	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.5	J	0.88	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-264-SA6-SB-0.4-1.4 Collected: 9/1/2011 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	2.4		0.84	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-266-SA6-SB-4.0-5.0 Collected: 9/1/2011 9:33:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: DUP14-SA6-QC-090111 Collected: 9/1/2011 9:23:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	20900		2.81	MDL	21.6	PQL	mg/Kg	J	E
PHOSPHORUS	238		0.377	MDL	10.8	PQL	mg/Kg	J	E
POTASSIUM	2890		12.2	MDL	53.9	PQL	mg/Kg	J	Q
SODIUM	94.8	J	6.41	MDL	108	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: DE237

Laboratory: LL

EDD Filename: DE237_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6010B **Matrix:** SO

Sample ID: DUP14-SA6-QC-090111 Collected: 9/1/2011 9:23:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.80	J	0.345	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	2.74	J	0.496	MDL	5.39	PQL	mg/Kg	J	Z

Sample ID: SL-258-SA6-SB-0.0-0.83 Collected: 9/1/2011 8:08:00 AM Analysis Type: REA2 Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	36800		12.8	MDL	97.8	PQL	mg/Kg	J	E

Sample ID: SL-258-SA6-SB-0.0-0.83 Collected: 9/1/2011 8:08:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	727		0.342	MDL	9.78	PQL	mg/Kg	J	E
POTASSIUM	3510		11.1	MDL	48.9	PQL	mg/Kg	J	Q
TIN	2.39	J	0.313	MDL	9.78	PQL	mg/Kg	U	B
Zirconium	0.660	J	0.450	MDL	4.89	PQL	mg/Kg	J	Z

Sample ID: SL-262-SA6-SB-4.0-5.0 Collected: 9/1/2011 9:15:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	20200		2.77	MDL	21.2	PQL	mg/Kg	J	E
PHOSPHORUS	207		0.372	MDL	10.6	PQL	mg/Kg	J	E
POTASSIUM	2150		12.0	MDL	53.1	PQL	mg/Kg	J	Q
SODIUM	97.9	J	6.32	MDL	106	PQL	mg/Kg	J	Z
TIN	2.85	J	0.340	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.30	J	0.489	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SL-264-SA6-SB-0.4-1.4 Collected: 9/1/2011 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
IRON	21500		2.63	MDL	20.1	PQL	mg/Kg	J	E
PHOSPHORUS	392		0.352	MDL	10.1	PQL	mg/Kg	J	E
POTASSIUM	3000		11.4	MDL	50.4	PQL	mg/Kg	J	Q
SODIUM	79.1	J	5.99	MDL	101	PQL	mg/Kg	J	Z
TIN	2.72	J	0.322	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.76	J	0.463	MDL	5.04	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: DE237

Laboratory: LL

EDD Filename: DE237_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-266-SA6-SB-4.0-5.0 Collected: 9/1/2011 9:33:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	24900		2.82	MDL	21.6	PQL	mg/Kg	J	E
PHOSPHORUS	368		0.378	MDL	10.8	PQL	mg/Kg	J	E
POTASSIUM	4310		12.2	MDL	54.0	PQL	mg/Kg	J	Q
SODIUM	84.3	J	6.43	MDL	108	PQL	mg/Kg	J	Z
TIN	2.95	J	0.346	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	3.43	J	0.497	MDL	5.40	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: DUP14-SA6-QC-090111 Collected: 9/1/2011 9:23:00 AM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.122	J	0.0631	MDL	0.435	PQL	mg/Kg	J	Z

Sample ID: DUP14-SA6-QC-090111 Collected: 9/1/2011 9:23:00 AM Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.687		0.0544	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: DUP14-SA6-QC-090111 Collected: 9/1/2011 9:23:00 AM Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	151		0.115	MDL	0.435	PQL	mg/Kg	J	E

Sample ID: DUP14-SA6-QC-090111 Collected: 9/1/2011 9:23:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.156	J	0.0805	MDL	0.218	PQL	mg/Kg	J	Z, Q
ARSENIC	6.11		0.0870	MDL	0.435	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.972		0.0174	MDL	0.109	PQL	mg/Kg	J	Q
CADMIUM	0.127		0.0479	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	29.2		0.131	MDL	0.435	PQL	mg/Kg	J	Q
COBALT	8.55		0.0218	MDL	0.109	PQL	mg/Kg	J	Q, E
COPPER	12.7		0.0870	MDL	0.435	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: DE237

Laboratory: LL

EDD Filename: DE237_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: DUP14-SA6-QC-090111 Collected: 9/1/2011 9:23:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	7.66		0.0111	MDL	0.218	PQL	mg/Kg	J	Q, E
NICKEL	20.5		0.109	MDL	0.435	PQL	mg/Kg	J	Q, E
SILVER	0.0422	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.417		0.0326	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	56.6		0.0239	MDL	0.109	PQL	mg/Kg	J	Q
ZINC	73.7		0.609	MDL	3.26	PQL	mg/Kg	J	E

Sample ID: SL-258-SA6-SB-0.0-0.83 Collected: 9/1/2011 8:08:00 AM Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	3.42		0.0504	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-258-SA6-SB-0.0-0.83 Collected: 9/1/2011 8:08:00 AM Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	123		0.107	MDL	0.403	PQL	mg/Kg	J	E

Sample ID: SL-258-SA6-SB-0.0-0.83 Collected: 9/1/2011 8:08:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.525		0.0745	MDL	0.201	PQL	mg/Kg	J	Q
ARSENIC	2.60		0.0806	MDL	0.403	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.309		0.0161	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	1.52		0.0443	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	45.9		0.121	MDL	0.403	PQL	mg/Kg	J	Q
COBALT	12.5		0.0201	MDL	0.101	PQL	mg/Kg	J	Q, E
COPPER	21.9		0.0806	MDL	0.403	PQL	mg/Kg	J	Q, E
LEAD	10.1		0.0103	MDL	0.201	PQL	mg/Kg	J	Q, E
NICKEL	26.7		0.101	MDL	0.403	PQL	mg/Kg	J	Q, E
SILVER	5.99		0.0143	MDL	0.101	PQL	mg/Kg	J	Q
THALLIUM	0.212		0.0302	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	75.7		0.0222	MDL	0.101	PQL	mg/Kg	J	Q
ZINC	90.2		0.564	MDL	3.02	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: DE237

Laboratory: LL

EDD Filename: DE237_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-262-SA6-SB-4.0-5.0 Collected: 9/1/2011 9:15:00 AM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.127	J	0.0616	MDL	0.425	PQL	mg/Kg	J	Z

Sample ID: SL-262-SA6-SB-4.0-5.0 Collected: 9/1/2011 9:15:00 AM Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.523		0.0531	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-262-SA6-SB-4.0-5.0 Collected: 9/1/2011 9:15:00 AM Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	105		0.113	MDL	0.425	PQL	mg/Kg	J	E

Sample ID: SL-262-SA6-SB-4.0-5.0 Collected: 9/1/2011 9:15:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.195	J	0.0786	MDL	0.212	PQL	mg/Kg	J	Z, Q
ARSENIC	4.78		0.0850	MDL	0.425	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.750		0.0170	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.105	J	0.0467	MDL	0.106	PQL	mg/Kg	J	Z, Q
CHROMIUM	20.9		0.127	MDL	0.425	PQL	mg/Kg	J	Q
COBALT	5.90		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	8.77		0.0850	MDL	0.425	PQL	mg/Kg	J	Q, E
LEAD	5.42		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, E
NICKEL	13.5		0.106	MDL	0.425	PQL	mg/Kg	J	Q, E
SILVER	0.0410	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.261		0.0319	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	41.6		0.0234	MDL	0.106	PQL	mg/Kg	J	Q
ZINC	52.7		0.595	MDL	3.19	PQL	mg/Kg	J	E

Sample ID: SL-264-SA6-SB-0.4-1.4 Collected: 9/1/2011 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	0.175	J	0.0596	MDL	0.411	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: DE237

Laboratory: LL

EDD Filename: DE237_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-264-SA6-SB-0.4-1.4 Collected: 9/1/2011 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	1.06		0.0514	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-264-SA6-SB-0.4-1.4 Collected: 9/1/2011 12:08:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	87.9		0.109	MDL	0.411	PQL	mg/Kg	J	E

Sample ID: SL-264-SA6-SB-0.4-1.4 Collected: 9/1/2011 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	0.154	J	0.0760	MDL	0.205	PQL	mg/Kg	J	Z, Q
ARSENIC	6.68		0.0822	MDL	0.411	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.739		0.0164	MDL	0.103	PQL	mg/Kg	J	Q
CADMIUM	0.0906	J	0.0452	MDL	0.103	PQL	mg/Kg	J	Z, Q
CHROMIUM	21.0		0.123	MDL	0.411	PQL	mg/Kg	J	Q
COBALT	10.7		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	8.79		0.0822	MDL	0.411	PQL	mg/Kg	J	Q, E
LEAD	6.28		0.0105	MDL	0.205	PQL	mg/Kg	J	Q, E
NICKEL	15.7		0.103	MDL	0.411	PQL	mg/Kg	J	Q, E
SILVER	0.0177	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q
THALLIUM	0.324		0.0308	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	46.7		0.0226	MDL	0.103	PQL	mg/Kg	J	Q
ZINC	68.0		0.575	MDL	3.08	PQL	mg/Kg	J	E

Sample ID: SL-266-SA6-SB-4.0-5.0 Collected: 9/1/2011 9:33:00 AM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0985	J	0.0633	MDL	0.437	PQL	mg/Kg	J	Z

Sample ID: SL-266-SA6-SB-4.0-5.0 Collected: 9/1/2011 9:33:00 AM Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.877		0.0546	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

Data Qualifier Summary

Lab Reporting Batch ID: DE237

Laboratory: LL

EDD Filename: DE237_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-266-SA6-SB-4.0-5.0 Collected: 9/1/2011 9:33:00 AM Analysis Type: REA3 Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	147		0.289	MDL	1.09	PQL	mg/Kg	J	E

Sample ID: SL-266-SA6-SB-4.0-5.0 Collected: 9/1/2011 9:33:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.168	J	0.0808	MDL	0.218	PQL	mg/Kg	J	Z, Q
ARSENIC	6.34		0.0873	MDL	0.437	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.05		0.0175	MDL	0.109	PQL	mg/Kg	J	Q
CADMIUM	0.358		0.0480	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	31.0		0.131	MDL	0.437	PQL	mg/Kg	J	Q
COBALT	10.3		0.0218	MDL	0.109	PQL	mg/Kg	J	Q, E
COPPER	19.0		0.0873	MDL	0.437	PQL	mg/Kg	J	Q, E
LEAD	8.99		0.0111	MDL	0.218	PQL	mg/Kg	J	Q, E
NICKEL	23.7		0.109	MDL	0.437	PQL	mg/Kg	J	Q, E
SILVER	0.0556	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.445		0.0327	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	58.7		0.0240	MDL	0.109	PQL	mg/Kg	J	Q
ZINC	90.4		0.611	MDL	3.27	PQL	mg/Kg	J	E

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: DUP14-SA6-QC-090111 Collected: 9/1/2011 9:23:00 AM 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-258-SA6-SB-0.0-0.83 Collected: 9/1/2011 8:08:00 AM 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	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: DE237

Laboratory: LL

EDD Filename: DE237_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-262-SA6-SB-4.0-5.0	Collected: 9/1/2011 9:15:00 AM	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

Sample ID: SL-264-SA6-SB-0.4-1.4	Collected: 9/1/2011 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
HEXAVALENT CHROMIUM	0.29	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-266-SA6-SB-4.0-5.0	Collected: 9/1/2011 9:33:00 AM	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	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-258-SA6-SB-0.0-0.83	Collected: 9/1/2011 8:08:00 AM	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0512	J	0.0070	MDL	0.100	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: DUP14-SA6-QC-090111	Collected: 9/1/2011 9:23:00 AM	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)	0.61	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-258-SA6-SB-0.0-0.83	Collected: 9/1/2011 8:08:00 AM	Analysis Type: REA2	Dilution: 5						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	2.5	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

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Data Qualifier Summary

Lab Reporting Batch ID: DE237

Laboratory: LL

EDD Filename: DE237_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-262-SA6-SB-4.0-5.0 Collected: 9/1/2011 9:15:00 AM 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)	0.83	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z, Q

Sample ID: SL-262-SA6-SB-4.0-5.0 Collected: 9/1/2011 9:15:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.5	U	5.5	MDL	11	PQL	mg/Kg	UJ	Q

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: DUP14-SA6-QC-090111 Collected: 9/1/2011 9:23:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E

Sample ID: SL-258-SA6-SB-0.0-0.83 Collected: 9/1/2011 8:08:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E
Aroclor 5460	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E

Sample ID: SL-262-SA6-SB-4.0-5.0 Collected: 9/1/2011 9:15:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E

Sample ID: SL-264-SA6-SB-0.4-1.4 Collected: 9/1/2011 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
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/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: DE237

Laboratory: LL

EDD Filename: DE237_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-264-SA6-SB-0.4-1.4 Collected: 9/1/2011 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
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E
Aroclor 5460	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E

Sample ID: SL-266-SA6-SB-4.0-5.0 Collected: 9/1/2011 9:33:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-258-SA6-SB-0.0-0.83 Collected: 9/1/2011 8:08:00 AM 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	27	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	24	J	17	MDL	170	PQL	ug/Kg	J	Z
CHRYSENE	35	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	54	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-262-SA6-SB-4.0-5.0 Collected: 9/1/2011 9:15:00 AM 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	1300	U	1300	MDL	3600	PQL	ug/Kg	R	Q

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

Sample ID: DUP14-SA6-QC-090111 Collected: 9/1/2011 9:23:00 AM 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	6.7	U	6.7	MDL	20	PQL	ug/Kg	UJ	FD
Di-n-octylphthalate	6.7	U	6.7	MDL	20	PQL	ug/Kg	UJ	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: DE237

Laboratory: LL

EDD Filename: DE237_v1.

eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-258-SA6-SB-0.0-0.83 Collected: 9/1/2011 8:08:00 AM 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	0.68	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.1	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-262-SA6-SB-4.0-5.0 Collected: 9/1/2011 9:15:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	Q
BIS(2-ETHYLHEXYL)PHTHALATE	8.2	J	6.6	MDL	20	PQL	ug/Kg	J	Z, FD
Dimethylphthalate	6.6	U	6.6	MDL	20	PQL	ug/Kg	UJ	Q
Di-n-octylphthalate	24		6.6	MDL	20	PQL	ug/Kg	J	Q, FD
N-NITROSODIMETHYLAMINE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	Q

Method Category:	SVOA	
Method:	8330A	Matrix: SO

Sample ID: SL-262-SA6-SB-4.0-5.0 Collected: 9/1/2011 9:15:00 AM Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRINITROBENZENE	42	U	42	MDL	130	PQL	ug/Kg	UJ	Q

Method Category:	VOA	
Method:	8015B	Matrix: SO

Sample ID: SL-262-SA6-SB-4.0-5.0 Collected: 9/1/2011 9:15:00 AM Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
p-Terphenyl	1.6	U	1.6	MDL	3.8	PQL	mg/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: DE237

Laboratory: LL

EDD Filename: DE237_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: DE237

Laboratory: LL

EDD Filename: DE237_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: DE237

Laboratory: LL

EDD Filename: DE237_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

DE237

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE237

Laboratory: LL

EDD Filename: DE237_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8330A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-262-SA6-SB-4.0-5.0MS (SL-262-SA6-SB-4.0-5.0)	1,3,5-TRINITROBENZENE	76	-	82.00-126.00	-	1,3,5-TRINITROBENZENE	J (all detects) UJ (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-262-SA6-SB-4.0-5.0MS SL-262-SA6-SB-4.0-5.0MSD (SL-262-SA6-SB-4.0-5.0)	DIETHYLENE GLYCOL	46	47	59.00-109.00	-	DIETHYLENE 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-262-SA6-SB-4.0-5.0MS SL-262-SA6-SB-4.0-5.0MSD (SL-262-SA6-SB-4.0-5.0)	p-Terphenyl	0	-	75.00-125.00	200 (20.00)	p-Terphenyl	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-262-SA6-SB-4.0-5.0MS SL-262-SA6-SB-4.0-5.0MSD (SL-262-SA6-SB-4.0-5.0)	EFH (C21-C30) EFH (C30-C40)	133 -	- -	49.00-123.00 49.00-123.00	- 25 (20.00)	EFH (C21-C30) EFH (C30-C40)	J(all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-262-SA6-SB-4.0-5.0MS SL-262-SA6-SB-4.0-5.0MSD (DUP14-SA6-QC-090111 SL-258-SA6-SB-0.0-0.83 SL-262-SA6-SB-4.0-5.0 SL-264-SA6-SB-0.4-1.4 SL-266-SA6-SB-4.0-5.0)	ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	140 - - - - - - 131 - - 135 -	155 138 134 155 129 153 168 169 129 144 193 211	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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE237

Laboratory: LL

EDD Filename: DE237_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-262-SA6-SB-4.0-5.0MS SL-262-SA6-SB-4.0-5.0MSD (DUP14 -SA6-QC-090111 SL -258-SA6-SB-0.0-0.83 SL -262-SA6-SB-4.0-5.0 SL -264-SA6-SB-0.4-1.4 SL -266-SA6-SB-4.0-5.0)	ANTIMONY	50	52	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-262-SA6-SB-4.0-5.0MS (DUP14 -SA6-QC-090111 SL -258-SA6-SB-0.0-0.83 SL -262-SA6-SB-4.0-5.0 SL -264-SA6-SB-0.4-1.4 SL -266-SA6-SB-4.0-5.0)	MOLYBDENUM	-	130	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-262-SA6-SB-4.0-5.0MS SL-262-SA6-SB-4.0-5.0MSD (DUP14 -SA6-QC-090111 SL -258-SA6-SB-0.0-0.83 SL -262-SA6-SB-4.0-5.0 SL -264-SA6-SB-0.4-1.4 SL -266-SA6-SB-4.0-5.0)	BARIUM	152	329	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-262-SA6-SB-4.0-5.0MS SL-262-SA6-SB-4.0-5.0MSD (DUP14 -SA6-QC-090111 SL -258-SA6-SB-0.0-0.83 SL -262-SA6-SB-4.0-5.0 SL -264-SA6-SB-0.4-1.4 SL -266-SA6-SB-4.0-5.0)	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE POTASSIUM	1404 128 569 147 127 144	1594 130 985 147 139 136	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 IRON MAGNESIUM MANGANESE POTASSIUM	J(all detects) Al, Ca, Fe, Mg, Mn, 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-262-SA6-SB-4.0-5.0MSD (SL-262-SA6-SB-4.0-5.0)	Di-n-octylphthalate	-	-	40.00-192.00	34 (30.00)	Di-n-octylphthalate	J(all detects)
SL-262-SA6-SB-4.0-5.0MS SL-262-SA6-SB-4.0-5.0MSD (SL-262-SA6-SB-4.0-5.0)	1-METHYLNAPHTHALENE Dimethylphthalate N-NITROSODIMETHYLAMINE	64 62 24	- - -	72.00-123.00 74.00-118.00 48.00-113.00	- - 116 (30.00)	1-METHYLNAPHTHALENE Dimethylphthalate N-NITROSODIMETHYLAMINE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE237

Laboratory: LL

EDD Filename: DE237_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-262-SA6-SB-4.0-5.0MS (DUP14 -SA6-QC-090111 SL -258-SA6-SB-0.0-0.83 SL -262-SA6-SB-4.0-5.0 SL -264-SA6-SB-0.4-1.4 SL -266-SA6-SB-4.0-5.0)	FLUORIDE	51	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-262-SA6-SB-4.0-5.0MS SL-262-SA6-SB-4.0-5.0MSD (DUP14 -SA6-QC-090111 SL -258-SA6-SB-0.0-0.83 SL -262-SA6-SB-4.0-5.0 SL -264-SA6-SB-0.4-1.4 SL -266-SA6-SB-4.0-5.0)	TITANIUM	230	155	75.00-125.00	-	TITANIUM	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-262-SA6-SB-4.0-5.0MS (SL-262-SA6-SB-4.0-5.0)	ISOPHORONE	103	-	73.00-102.00	-	ISOPHORONE	J(all detects)
SL-262-SA6-SB-4.0-5.0MS SL-262-SA6-SB-4.0-5.0MSD (SL-262-SA6-SB-4.0-5.0)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE237

Laboratory: LL

EDD Filename: DE237_v1.

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-262-SA6-SB-4.0-5.0DUP (DUP14 -SA6-QC-090111 SL -258-SA6-SB-0.0-0.83 SL -262-SA6-SB-4.0-5.0 SL -264-SA6-SB-0.4-1.4 SL -266-SA6-SB-4.0-5.0)	Nitrate-NO3	76	20.00	No Qual, OK by Difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-262-SA6-SB-4.0-5.0DUP (DUP14 -SA6-QC-090111 SL -258-SA6-SB-0.0-0.83 SL -262-SA6-SB-4.0-5.0 SL -264-SA6-SB-0.4-1.4 SL -266-SA6-SB-4.0-5.0)	IRON PHOSPHORUS	57 27	20.00 20.00	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-262-SA6-SB-4.0-5.0DUP (DUP14 -SA6-QC-090111 SL -258-SA6-SB-0.0-0.83 SL -262-SA6-SB-4.0-5.0 SL -264-SA6-SB-0.4-1.4 SL -266-SA6-SB-4.0-5.0)	ARSENIC BARIUM CADMIUM COBALT COPPER LEAD NICKEL SELENIUM THALLIUM ZINC	23 31 30 22 26 24 23 25 22 22	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects) Cd, Se, Tl, No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE237

Laboratory: LL

EDD Filename: DE237_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12532AQ242123A P12532AY242141A (DUP14 -SA6-QC-090111 SL -258-SA6-SB-0.0-0.83 SL -262-SA6-SB-4.0-5.0 SL -264-SA6-SB-0.4-1.4 SL -266-SA6-SB-4.0-5.0)	Aroclor 5442	116	-	36.00-106.00	42 (30.00)	Aroclor 5442, 5432, 5460	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
P24526AQ221050A (DUP14 -SA6-QC-090111 SL -258-SA6-SB-0.0-0.83 SL -262-SA6-SB-4.0-5.0 SL -264-SA6-SB-0.4-1.4 SL -266-SA6-SB-4.0-5.0)	VANADIUM	124	-	80.00-120.00	-	VANADIUM	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
P24508DQ221136 P24508DQ222019 (DUP14 -SA6-QC-090111 SL -258-SA6-SB-0.0-0.83 SL -262-SA6-SB-4.0-5.0 SL -264-SA6-SB-0.4-1.4 SL -266-SA6-SB-4.0-5.0)	ALUMINUM IRON MAGNESIUM POTASSIUM	156 146 132 130	- - - -	80.00-120.00 80.00-120.00 80.00-120.00 80.00-120.00	- - - -	ALUMINUM IRON MAGNESIUM POTASSIUM	No Qual, SRM within QC Limits

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P1LCLCSQ260411 (DUP14 -SA6-QC-090111 SL -258-SA6-SB-0.0-0.83 SL -262-SA6-SB-4.0-5.0 SL -264-SA6-SB-0.4-1.4 SL -266-SA6-SB-4.0-5.0)	Diethylphthalate FLUORENE	140 126	- -	68.00-125.00 71.00-120.00	- -	Diethylphthalate FLUORENE	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE237

Laboratory: LL

EDD Filename: DE237_v1.

eQAPP Name: CDM_SSFL_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-262-SA6-SB-4.0-5.0	DUP14-SA6-QC-090111			
MOISTURE	8.6	9.9	14		No Qualifiers Applied

Method: 300.0

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-262-SA6-SB-4.0-5.0	DUP14-SA6-QC-090111			
FLUORIDE	2.4	2.5	4	50.00	No Qualifiers Applied
Nitrate-NO3	1.5	1.6	6	50.00	

Method: 6010B

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-262-SA6-SB-4.0-5.0	DUP14-SA6-QC-090111			
ALUMINUM	20700	21700	5	50.00	No Qualifiers Applied
CALCIUM	2170	2160	0	50.00	
IRON	20200	20900	3	50.00	
LITHIUM	23.2	24.3	5	50.00	
MAGNESIUM	4230	4420	4	50.00	
MANGANESE	257	316	21	50.00	
PHOSPHORUS	207	238	14	50.00	
POTASSIUM	2150	2890	29	50.00	
SODIUM	97.9	94.8	3	50.00	
STRONTIUM	23.6	23.3	1	50.00	
TIN	2.85	2.80	2	50.00	
TITANIUM	1350	1260	7	50.00	
Zirconium	2.30	2.74	17	50.00	

Method: 6020

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-262-SA6-SB-4.0-5.0	DUP14-SA6-QC-090111			
ANTIMONY	0.195	0.156	22	50.00	No Qualifiers Applied
ARSENIC	4.78	6.11	24	50.00	
BARIUM	105	151	36	50.00	
BERYLLIUM	0.750	0.972	26	50.00	
CADMIUM	0.105	0.127	19	50.00	
CHROMIUM	20.9	29.2	33	50.00	
COBALT	5.90	8.55	37	50.00	
COPPER	8.77	12.7	37	50.00	
LEAD	5.42	7.66	34	50.00	
MOLYBDENUM	0.523	0.687	27	50.00	
NICKEL	13.5	20.5	41	50.00	
SELENIUM	0.127	0.122	4	50.00	
SILVER	0.0410	0.0422	3	50.00	
THALLIUM	0.261	0.417	46	50.00	
VANADIUM	41.6	56.6	31	50.00	
ZINC	52.7	73.7	33	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE237

Laboratory: LL

EDD Filename: DE237_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-262-SA6-SB-4.0-5.0	DUP14-SA6-QC-090111			
HEXAVALENT CHROMIUM	0.38	0.32	17	50.00	No Qualifiers Applied

Method: 8015M

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-262-SA6-SB-4.0-5.0	DUP14-SA6-QC-090111			
EFH (C30-C40)	0.83	0.61	31	50.00	No Qualifiers Applied

Method: 8270C SIM

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-262-SA6-SB-4.0-5.0	DUP14-SA6-QC-090111			
BIS(2-ETHYLHEXYL)PHTHALATE	8.2	20 U	200	50.00	J(all detects)
Di-n-octylphthalate	24	20 U	200	50.00	UJ(all non-detects)

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-262-SA6-SB-4.0-5.0	DUP14-SA6-QC-090111			
PH	6.99	7.10	2	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE237

Laboratory: LL

EDD Filename: DE237_v1.

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP14-SA6-QC-090111	Nitrate-NO3	J	1.6	1.7	PQL	mg/Kg	J (all detects)
SL-258-SA6-SB-0.0-0.83	Nitrate-NO3	J	0.86	1.5	PQL	mg/Kg	J (all detects)
SL-262-SA6-SB-4.0-5.0	Nitrate-NO3	J	1.5	1.7	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP14-SA6-QC-090111	SODIUM	J	94.8	108	PQL	mg/Kg	J (all detects)
	TIN	J	2.80	10.8	PQL	mg/Kg	
	Zirconium	J	2.74	5.39	PQL	mg/Kg	
SL-258-SA6-SB-0.0-0.83	TIN	J	2.39	9.78	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.660	4.89	PQL	mg/Kg	
SL-262-SA6-SB-4.0-5.0	SODIUM	J	97.9	106	PQL	mg/Kg	J (all detects)
	TIN	J	2.85	10.6	PQL	mg/Kg	
	Zirconium	J	2.30	5.31	PQL	mg/Kg	
SL-264-SA6-SB-0.4-1.4	SODIUM	J	79.1	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.72	10.1	PQL	mg/Kg	
	Zirconium	J	1.76	5.04	PQL	mg/Kg	
SL-266-SA6-SB-4.0-5.0	SODIUM	J	84.3	108	PQL	mg/Kg	J (all detects)
	TIN	J	2.95	10.8	PQL	mg/Kg	
	Zirconium	J	3.43	5.40	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP14-SA6-QC-090111	ANTIMONY	J	0.156	0.218	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.122	0.435	PQL	mg/Kg	
	SILVER	J	0.0422	0.109	PQL	mg/Kg	
SL-262-SA6-SB-4.0-5.0	ANTIMONY	J	0.195	0.212	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.105	0.106	PQL	mg/Kg	
	SELENIUM	J	0.127	0.425	PQL	mg/Kg	
	SILVER	J	0.0410	0.106	PQL	mg/Kg	
SL-264-SA6-SB-0.4-1.4	ANTIMONY	J	0.154	0.205	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0906	0.103	PQL	mg/Kg	
	SELENIUM	J	0.175	0.411	PQL	mg/Kg	
	SILVER	J	0.0177	0.103	PQL	mg/Kg	
SL-266-SA6-SB-4.0-5.0	ANTIMONY	J	0.168	0.218	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0985	0.437	PQL	mg/Kg	
	SILVER	J	0.0556	0.109	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE237

Laboratory: LL

EDD Filename: DE237_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP14-SA6-QC-090111	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)
SL-258-SA6-SB-0.0-0.83	HEXAVALENT CHROMIUM	J	0.23	1.0	PQL	mg/Kg	J (all detects)
SL-262-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.38	1.1	PQL	mg/Kg	J (all detects)
SL-264-SA6-SB-0.4-1.4	HEXAVALENT CHROMIUM	J	0.29	1.0	PQL	mg/Kg	J (all detects)
SL-266-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.42	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-258-SA6-SB-0.0-0.83	MERCURY	J	0.0512	0.100	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP14-SA6-QC-090111	EFH (C30-C40)	J	0.61	1.3	PQL	mg/Kg	J (all detects)
SL-258-SA6-SB-0.0-0.83	EFH (C15-C20)	J	2.5	6.1	PQL	mg/Kg	J (all detects)
SL-262-SA6-SB-4.0-5.0	EFH (C30-C40)	J	0.83	1.3	PQL	mg/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-258-SA6-SB-0.0-0.83	BENZO(A)ANTHRACENE	J	27	170	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	24	170	PQL	ug/Kg	
	CHRYSENE	J	35	170	PQL	ug/Kg	
	PYRENE	J	54	170	PQL	ug/Kg	

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-258-SA6-SB-0.0-0.83	ACENAPHTHENE	J	0.68	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	18	PQL	ug/Kg	
SL-262-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.2	20	PQL	ug/Kg	J (all detects)

LDC #: 26859G4
 SDG #: DE237
 Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET
 ADR

Date: 12/17/11
 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	AN	No find by 2013/11/13
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, BA, Ca, Fe, Mg, Mn, Ti, Zn 74X, No find 7.12
VII.	Duplicate Sample Analysis	SW	cd, Se, Te 45X, No find
VIII.	Laboratory Control Samples (LCS)	AN	SRM
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	-	
XV.	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-258-SA6-SB-0.0-0.83	11	MD	21		31	
2	SL-262-SA6-SB-4.0-5.0	12		22		32	
3	SL-264-SA6-SB-0.4-1.4	13		23		33	
4	SL-266-SA6-SB-4.0-5.0	14		24		34	
5	DUP14-SA6-QC-090111	15		25		35	
6	SL-262-SA6-SB-4.0-5.0MS	16		26		36	
7	SL-262-SA6-SB-4.0-5.0MSD	17		27		37	
8	SL-262-SA6-SB-4.0-5.0DUP	18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____



QUALITY ASSURANCE SUMMARY
 FORM 5A (MS/MSD)
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE
 SDG No.: DE237
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6395204BKG Matrix Spike Lab Sample ID: 6395205MS Matrix Spike Duplicate Lab Sample ID: 6395206MSD
 % Solids for Sample: 91.4
 Batch Id(s): P24508D, P24526A, P24511B, P25508A

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	20683.5992		23695.0305		24069.3389		214.5278	212.4450	MG/KG	1404	1594	2	74X	20P	JMS
Antimony	75	0.1952	B	0.8425		0.8660		1.2872	1.2999	MG/KG	50 N	52 N	3	75 - 125	20MS	JMS
Arsenic	137	4.7758		7.7852		8.1353		2.1453	2.1665	MG/KG	140 N	155 N	4	75 - 125	20MS	JMS
Barium	9	105.1390		121.4227		140.7587		10.7264	10.8326	MG/KG	152	329	15	74X	20MS	JMS
Beryllium	9	0.7504		1.7201		1.9468		0.8581	0.8666	MG/KG	113	138 N	12	75 - 125	20MS	JMS
Boron		0.3824	U	220.9004		209.7618		214.5278	212.4450	MG/KG	103	99	5	84 - 115	20P	JMS
Cadmium	111	0.1045	B	1.2925		1.5590		1.0726	1.0833	MG/KG	111	134 N	19	75 - 125	20MS	JMS
Calcium		2173.7790		2721.1814		2724.3175		429.0556	424.8901	MG/KG	128	130	0	74X	20P	JMS
Chromium	52	20.8812		32.9515		37.6541		10.7264	10.8326	MG/KG	113	155 N	13	75 - 125	20MS	JMS
Cobalt	59	5.8996		67.8766		75.7848		53.6320	54.1630	MG/KG	116	129 N	11	75 - 125	20MS	JMS
Copper	63	8.7719		21.8175		25.3483		10.7264	10.8326	MG/KG	122	153 N	15	75 - 125	20MS	JMS
Iron		20164.8977		20775.0021		21210.9855		107.2639	106.2225	MG/KG	569	985	2	74X	20P	JMS
Lead	208	5.4195		9.3856		10.8759		3.2179	3.2498	MG/KG	123	168 N	15	75 - 125	20MS	JMS
Lithium		23.1501		131.8939		131.2050		107.2639	106.2225	MG/KG	101	102	1	82 - 114	20P	JMS
Magnesium		4231.9199		4547.6059		4543.5629		214.5278	212.4450	MG/KG	147	147	0	74X	20P	JMS
Manganese		256.7154		324.6632		330.4975		53.6320	53.1113	MG/KG	127	139	2	74X	20P	JMS
Mercury		0.0077	U	0.1828		0.1828		0.1775	0.1724	MG/KG	103	106	0	65 - 135	20CV	JMS
Molybdenum	98	0.5228		12.9339		14.6067		10.7264	10.8326	MG/KG	116	130 N	12	75 - 125	20MS	JMS
Nickel	60	13.5030		27.5239		31.8478		10.7264	10.8326	MG/KG	131 N	169 N	15	75 - 125	20MS	JMS
Phosphorus		207.4728		332.0097		334.2451		107.2639	106.2225	MG/KG	116	119	1	75 - 125	20P	JMS
Potassium		2146.3417		3687.5413		3587.5029		1072.6391	1062.2252	MG/KG	144 N	136 N	3	75 - 125	20P	JMS
Selenium	78	0.1267	B	2.6816		2.7731		2.1453	2.1665	MG/KG	119	122	3	75 - 125	20MS	JMS
Silver	107	0.0410	B	12.8137		14.0585		10.7264	10.8326	MG/KG	119	129 N	9	75 - 125	20MS	JMS
Sodium		97.8883	B	1123.5219		1099.9140		1072.6391	1062.2252	MG/KG	96	94	2	75 - 125	20P	JMS
Strontium		23.6026		128.5730		125.9289		107.2639	106.2225	MG/KG	98	96	2	75 - 115	20P	JMS
Thallium	203	0.2613		0.7965		0.8850		0.4291	0.4333	MG/KG	125	144 N	11	75 - 125	20MS	JMS
Tin		2.8500	B	384.5486		377.0910		429.0556	424.8901	MG/KG	89	88	2	80 - 110	20P	JMS
Titanium		1345.1630		1592.0453		1513.0414		107.2639	108.3259	MG/KG	230	155	5	74X	20P	JMS
Vanadium	51	41.5755		56.0561		62.5041		10.7264	10.8326	MG/KG	135 N	193 N	11	75 - 125	20MS	JMS
Zinc	66	52.7289		65.8815		75.5682		10.7264	10.8326	MG/KG	123	211	14	74X	20MS	JMS
Zirconium		2.3040	B	106.9636		104.8299		107.2639	106.2225	MG/KG	98	97	2	75 - 125	20P	JMS

METHODS:
 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.: DE237

Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6395204BKG

Duplicate Lab Sample ID: 6395207DUP

% Solids for Duplicate: 91.4

% Solids for Sample: 91.4

Batch ID(s): P24508D, P24526A, P24511B, P25508A

JWJ

Concentration Units: MG/KG

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			20683.5992		20986.2188		1		P
Antimony	121		0.1952	B	0.1916	B	2		MS
Arsenic	75		4.7758		6.0037		23	*	MS
Barium	137		105.1390		143.2942		31	*	MS
Beryllium	9		0.7504		0.9080		19		MS
Boron			0.3824	U	0.3900	U			P
Cadmium	111	0.1	0.1045	B	0.1410		20		MS
Calcium			2173.7790		2180.1038		0		P
Chromium	52		20.8812		24.9835		18		MS
Cobalt	59		5.8996		7.3336		22	*	MS
Copper	63		8.7719		11.4444		26	*	MS
Iron			20164.8977		36380.7819		57	*	P
Lead	208		5.4195		6.8705		24	*	MS
Lithium			23.1501		23.2695		1		P
Magnesium			4231.9199		4308.9358		2		P
Manganese			256.7154		301.1201		16		P
Mercury			0.0077	U	0.0078	U			CV
Molybdenum	98	0.1	0.5228		0.6099		15		MS
Nickel	60		13.5030		17.0806		23	*	MS
Phosphorus			207.4728		273.2110		27	*	P
Potassium			2146.3417		2544.9043		17		P
Selenium	78		0.1267	B	0.0986	B	25		MS
Silver	107		0.0410	B	0.0488	B	17		MS
Sodium			97.8883	B	94.9618	B	3		P
Strontium			23.6026		22.3216		6		P
Thallium	203	0.1	0.2613		0.3244		22		MS
Tin			2.8500	B	2.8934	B	2		P
Titanium			1345.1630		1318.9204		2		P
Vanadium	51		41.5755		49.1810		17		MS
Zinc	66		52.7289		65.9854		22	*	MS
Zirconium			2.3040	B	2.6930	B	16		P

LSX

LSX

LSX

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.

DE237 2388

<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

DE238

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
06-Sep-2011	TB-090611	6397889	TB	5030B	8015M	III
06-Sep-2011	SL-263-SA6-SB-4.0-5.0	6397887	N	3050B	6010B	III
06-Sep-2011	SL-263-SA6-SB-4.0-5.0	6397887	N	3050B	6020	III
06-Sep-2011	SL-263-SA6-SB-4.0-5.0	6397887	N	3060A	7199	III
06-Sep-2011	SL-263-SA6-SB-4.0-5.0	6397887	N	3546	1625C	III
06-Sep-2011	SL-263-SA6-SB-4.0-5.0	6397887	N	3550B	8015B	III
06-Sep-2011	SL-263-SA6-SB-4.0-5.0	6397887	N	3550B	8015M	III
06-Sep-2011	SL-263-SA6-SB-4.0-5.0	6397887	N	3550B	8082	III
06-Sep-2011	SL-263-SA6-SB-4.0-5.0	6397887	N	3550B	8270C	III
06-Sep-2011	SL-263-SA6-SB-4.0-5.0	6397887	N	3550B	8270C SIM	III
06-Sep-2011	SL-263-SA6-SB-4.0-5.0	6397887	N	5035	8015M	III
06-Sep-2011	SL-263-SA6-SB-4.0-5.0	6397887	N	8330	8330A	III
06-Sep-2011	SL-263-SA6-SB-4.0-5.0	6397887	N	METHOD	300.0	III
06-Sep-2011	SL-263-SA6-SB-4.0-5.0	6397887	N	METHOD	314.0	III
06-Sep-2011	SL-263-SA6-SB-4.0-5.0	6397887	N	METHOD	7471A	III
06-Sep-2011	SL-263-SA6-SB-4.0-5.0	6397887	N	METHOD	8015B	III
06-Sep-2011	SL-263-SA6-SB-4.0-5.0	6397887	N	METHOD	8015M	III
06-Sep-2011	SL-263-SA6-SB-4.0-5.0	6397887	N	METHOD	8315A	III
06-Sep-2011	SL-263-SA6-SB-4.0-5.0	6397887	N	METHOD	9012B	III
06-Sep-2011	SL-263-SA6-SB-9.0-10.0	6397888	N	3050B	6010B	III
06-Sep-2011	SL-263-SA6-SB-9.0-10.0	6397888	N	3050B	6020	III
06-Sep-2011	SL-263-SA6-SB-9.0-10.0	6397888	N	3060A	7199	III
06-Sep-2011	SL-263-SA6-SB-9.0-10.0	6397888	N	3546	1625C	III
06-Sep-2011	SL-263-SA6-SB-9.0-10.0	6397888	N	3550B	8015B	III
06-Sep-2011	SL-263-SA6-SB-9.0-10.0	6397888	N	3550B	8015M	III
06-Sep-2011	SL-263-SA6-SB-9.0-10.0	6397888	N	3550B	8082	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
06-Sep-2011	SL-263-SA6-SB-9.0-10.0	6397888	N	3550B	8270C	III
06-Sep-2011	SL-263-SA6-SB-9.0-10.0	6397888	N	3550B	8270C SIM	III
06-Sep-2011	SL-263-SA6-SB-9.0-10.0	6397888	N	5035	8015M	III
06-Sep-2011	SL-263-SA6-SB-9.0-10.0	6397888	N	8330	8330A	III
06-Sep-2011	SL-263-SA6-SB-9.0-10.0	6397888	N	METHOD	300.0	III
06-Sep-2011	SL-263-SA6-SB-9.0-10.0	6397888	N	METHOD	314.0	III
06-Sep-2011	SL-263-SA6-SB-9.0-10.0	6397888	N	METHOD	7471A	III
06-Sep-2011	SL-263-SA6-SB-9.0-10.0	6397888	N	METHOD	8015B	III
06-Sep-2011	SL-263-SA6-SB-9.0-10.0	6397888	N	METHOD	8015M	III
06-Sep-2011	SL-263-SA6-SB-9.0-10.0	6397888	N	METHOD	8315A	III
06-Sep-2011	SL-263-SA6-SB-9.0-10.0	6397888	N	METHOD	9012B	III
06-Sep-2011	SL-261-SA6-SB-1.5-2.5	6397885	N	3050B	6010B	III
06-Sep-2011	SL-261-SA6-SB-1.5-2.5	6397885	N	3050B	6020	III
06-Sep-2011	SL-261-SA6-SB-1.5-2.5	6397885	N	3060A	7199	III
06-Sep-2011	SL-261-SA6-SB-1.5-2.5	6397885	N	3546	1625C	III
06-Sep-2011	SL-261-SA6-SB-1.5-2.5	6397885	N	3550B	8015B	III
06-Sep-2011	SL-261-SA6-SB-1.5-2.5	6397885	N	3550B	8015M	III
06-Sep-2011	SL-261-SA6-SB-1.5-2.5	6397885	N	3550B	8082	III
06-Sep-2011	SL-261-SA6-SB-1.5-2.5	6397885	N	3550B	8270C	III
06-Sep-2011	SL-261-SA6-SB-1.5-2.5	6397885	N	3550B	8270C SIM	III
06-Sep-2011	SL-261-SA6-SB-1.5-2.5	6397885	N	5035	8015M	III
06-Sep-2011	SL-261-SA6-SB-1.5-2.5	6397885	N	8330	8330A	III
06-Sep-2011	SL-261-SA6-SB-1.5-2.5	6397885	N	METHOD	300.0	III
06-Sep-2011	SL-261-SA6-SB-1.5-2.5	6397885	N	METHOD	314.0	III
06-Sep-2011	SL-261-SA6-SB-1.5-2.5	6397885	N	METHOD	7471A	III
06-Sep-2011	SL-261-SA6-SB-1.5-2.5	6397885	N	METHOD	8015B	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
06-Sep-2011	SL-261-SA6-SB-1.5-2.5	6397885	N	METHOD	8015M	III
06-Sep-2011	SL-261-SA6-SB-1.5-2.5	6397885	N	METHOD	8315A	III
06-Sep-2011	SL-261-SA6-SB-1.5-2.5	6397885	N	METHOD	9012B	III
06-Sep-2011	SL-261-SA6-SB-9.0-10.0	6397886	N	3050B	6010B	III
06-Sep-2011	SL-261-SA6-SB-9.0-10.0	6397886	N	3050B	6020	III
06-Sep-2011	SL-261-SA6-SB-9.0-10.0	6397886	N	3060A	7199	III
06-Sep-2011	SL-261-SA6-SB-9.0-10.0	6397886	N	3546	1625C	III
06-Sep-2011	SL-261-SA6-SB-9.0-10.0	6397886	N	3550B	8015B	III
06-Sep-2011	SL-261-SA6-SB-9.0-10.0	6397886	N	3550B	8015M	III
06-Sep-2011	SL-261-SA6-SB-9.0-10.0	6397886	N	3550B	8082	III
06-Sep-2011	SL-261-SA6-SB-9.0-10.0	6397886	N	3550B	8270C	III
06-Sep-2011	SL-261-SA6-SB-9.0-10.0	6397886	N	3550B	8270C SIM	III
06-Sep-2011	SL-261-SA6-SB-9.0-10.0	6397886	N	5035	8015M	III
06-Sep-2011	SL-261-SA6-SB-9.0-10.0	6397886	N	8330	8330A	III
06-Sep-2011	SL-261-SA6-SB-9.0-10.0	6397886	N	METHOD	300.0	III
06-Sep-2011	SL-261-SA6-SB-9.0-10.0	6397886	N	METHOD	314.0	III
06-Sep-2011	SL-261-SA6-SB-9.0-10.0	6397886	N	METHOD	6850	III
06-Sep-2011	SL-261-SA6-SB-9.0-10.0	6397886	N	METHOD	7471A	III
06-Sep-2011	SL-261-SA6-SB-9.0-10.0	6397886	N	METHOD	8015B	III
06-Sep-2011	SL-261-SA6-SB-9.0-10.0	6397886	N	METHOD	8015M	III
06-Sep-2011	SL-261-SA6-SB-9.0-10.0	6397886	N	METHOD	8315A	III
06-Sep-2011	SL-261-SA6-SB-9.0-10.0	6397886	N	METHOD	9012B	III
06-Sep-2011	SL-261-SA6-SB-9.0-10.0MSD	P397886M241756A	MSD	METHOD	6850	III
06-Sep-2011	SL-261-SA6-SB-9.0-10.0MS	P397886R241744A	MS	METHOD	6850	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0	6397884	N	3050B	6010B	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0	6397884	N	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Sep-2011	SL-204-SA6-SB-4.0-5.0	6397884	N	3060A	7199	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0	6397884	N	3546	1625C	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0	6397884	N	3550B	8015B	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0	6397884	N	3550B	8015M	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0	6397884	N	3550B	8082	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0	6397884	N	3550B	8270C	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0	6397884	N	3550B	8270C SIM	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0	6397884	N	5035	8015M	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0	6397884	N	8330	8330A	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0	6397884	N	METHOD	300.0	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0	6397884	N	METHOD	314.0	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0	6397884	N	METHOD	7471A	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0	6397884	N	METHOD	8015B	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0	6397884	N	METHOD	8015M	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0	6397884	N	METHOD	8315A	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0	6397884	N	METHOD	9012B	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0DUP	P397884D270812A	DUP	METHOD	9012B	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0DUP	P397884D272057A	DUP	METHOD	314.0	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0MSD	P397884M241830A	MSD	8330	8330A	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0MSD	P397884M242056A	MSD	METHOD	8315A	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0MSD	P397884M260604	MSD	3550B	8270C SIM	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0MSD	P397884M261739	MSD	3546	1625C	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0MSD	P397884M321624A	MSD	METHOD	8015M	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0MSD	P397884M322107A	MSD	METHOD	8015B	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0MS	P397884R241747A	MS	8330	8330A	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0MS	P397884R242046A	MS	METHOD	8315A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Sep-2011	SL-204-SA6-SB-4.0-5.0MS	P397884R260531	MS	3550B	8270C SIM	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0MS	P397884R261720	MS	3546	1625C	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0MS	P397884R270813A	MS	METHOD	9012B	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0MS	P397884R272120A	MS	METHOD	314.0	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0MS	P397884R321611A	MS	METHOD	8015M	III
06-Sep-2011	SL-204-SA6-SB-4.0-5.0MS	P397884R322123A	MS	METHOD	8015B	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE238

Laboratory: LL

EDD Filename: DE238_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-204-SA6-SB-4.0-5.0	Collected: 9/6/2011 12:45:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.5	J	0.88	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-261-SA6-SB-1.5-2.5	Collected: 9/6/2011 10:40:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.96	J	0.90	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-261-SA6-SB-9.0-10.0	Collected: 9/6/2011 10:45:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.0	J	0.89	MDL	1.1	PQL	mg/Kg	J	Z
Nitrate-NO3	1.3	J	0.89	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-263-SA6-SB-4.0-5.0	Collected: 9/6/2011 8:40:00 AM	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.4	J	0.86	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-263-SA6-SB-9.0-10.0	Collected: 9/6/2011 8:44:00 AM	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.5	J	0.92	MDL	1.7	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-204-SA6-SB-4.0-5.0	Collected: 9/6/2011 12:45:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	106	J	6.42	MDL	108	PQL	mg/Kg	J	Z
TIN	3.01	J	0.345	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	2.74	J	0.496	MDL	5.39	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: DE238

Laboratory: LL

EDD Filename: DE238_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6010B **Matrix:** SO

Sample ID: SL-261-SA6-SB-1.5-2.5 Collected: 9/6/2011 10:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	90.8	J	6.63	MDL	111	PQL	mg/Kg	J	Z
TIN	3.01	J	0.356	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	3.26	J	0.512	MDL	5.57	PQL	mg/Kg	J	Z

Sample ID: SL-261-SA6-SB-9.0-10.0 Collected: 9/6/2011 10:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	83.0	J	6.58	MDL	111	PQL	mg/Kg	J	Z
TIN	3.09	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.42	J	0.509	MDL	5.53	PQL	mg/Kg	J	Z

Sample ID: SL-263-SA6-SB-4.0-5.0 Collected: 9/6/2011 8:40:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	107	J	6.48	MDL	109	PQL	mg/Kg	J	Z
TIN	3.25	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.15	J	0.501	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-263-SA6-SB-9.0-10.0 Collected: 9/6/2011 8:44:00 AM 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	2.60	J	0.503	MDL	5.47	PQL	mg/Kg	J	Z

Method Category: METALS
Method: 6020 **Matrix:** SO

Sample ID: SL-204-SA6-SB-4.0-5.0 Collected: 9/6/2011 12:45:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.113	J	0.0613	MDL	0.423	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: DE238

Laboratory: LL

EDD Filename: DE238_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-204-SA6-SB-4.0-5.0 Collected: 9/6/2011 12:45:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0796	J	0.0783	MDL	0.212	PQL	mg/Kg	UJ	B, Q
CHROMIUM	18.8		0.127	MDL	0.423	PQL	mg/Kg	J	A
SILVER	0.0449	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	42.1		0.0233	MDL	0.106	PQL	mg/Kg	J	A

Sample ID: SL-261-SA6-SB-1.5-2.5 Collected: 9/6/2011 10:40:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.159	J	0.0621	MDL	0.428	PQL	mg/Kg	J	Z

Sample ID: SL-261-SA6-SB-1.5-2.5 Collected: 9/6/2011 10:40:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.114	J	0.0792	MDL	0.214	PQL	mg/Kg	UJ	B, Q
CHROMIUM	45.6		0.128	MDL	0.428	PQL	mg/Kg	J	A
VANADIUM	35.4		0.0236	MDL	0.107	PQL	mg/Kg	J	A

Sample ID: SL-261-SA6-SB-9.0-10.0 Collected: 9/6/2011 10:45:00 Analysis Type: REA Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.220	J	0.161	MDL	0.537	PQL	mg/Kg	J	Z

Sample ID: SL-261-SA6-SB-9.0-10.0 Collected: 9/6/2011 10:45:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0786	J	0.0623	MDL	0.430	PQL	mg/Kg	J	Z

Sample ID: SL-261-SA6-SB-9.0-10.0 Collected: 9/6/2011 10:45:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0795	U	0.0795	MDL	0.215	PQL	mg/Kg	UJ	Q
CHROMIUM	17.7		0.129	MDL	0.430	PQL	mg/Kg	J	A
SILVER	0.0544	J	0.0153	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	37.3		0.0236	MDL	0.107	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: DE238

Laboratory: LL

EDD Filename: DE238_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-263-SA6-SB-4.0-5.0 Collected: 9/6/2011 8:40:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0798	U	0.0798	MDL	0.216	PQL	mg/Kg	UJ	Q
CADMIUM	0.0687	J	0.0475	MDL	0.108	PQL	mg/Kg	J	Z
CHROMIUM	18.2		0.129	MDL	0.431	PQL	mg/Kg	J	A
SILVER	0.0483	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	37.1		0.0237	MDL	0.108	PQL	mg/Kg	J	A

Sample ID: SL-263-SA6-SB-9.0-10.0 Collected: 9/6/2011 8:44:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0825	U	0.0825	MDL	0.223	PQL	mg/Kg	UJ	Q
CHROMIUM	18.9		0.134	MDL	0.446	PQL	mg/Kg	J	A
SILVER	0.0306	J	0.0158	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	36.8		0.0245	MDL	0.111	PQL	mg/Kg	J	A

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-204-SA6-SB-4.0-5.0 Collected: 9/6/2011 12:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-261-SA6-SB-9.0-10.0 Collected: 9/6/2011 10:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-263-SA6-SB-4.0-5.0 Collected: 9/6/2011 8:40:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	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: DE238

Laboratory: LL

EDD Filename: DE238_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-263-SA6-SB-9.0-10.0 Collected: 9/6/2011 8:44:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.55	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-204-SA6-SB-4.0-5.0 Collected: 9/6/2011 12:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0150	J	0.0073	MDL	0.103	PQL	mg/Kg	U	B

Sample ID: SL-261-SA6-SB-1.5-2.5 Collected: 9/6/2011 10:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0108	J	0.0076	MDL	0.108	PQL	mg/Kg	U	B

Sample ID: SL-261-SA6-SB-9.0-10.0 Collected: 9/6/2011 10:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0089	J	0.0072	MDL	0.103	PQL	mg/Kg	U	B

Sample ID: SL-263-SA6-SB-9.0-10.0 Collected: 9/6/2011 8:44:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0107	J	0.0079	MDL	0.113	PQL	mg/Kg	U	B

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-204-SA6-SB-4.0-5.0 Collected: 9/6/2011 12:45:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.87	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C15-C20)	0.48	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.96	J	0.44	MDL	1.3	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: DE238

Laboratory: LL

EDD Filename: DE238_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8015M	Matrix:	SO
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Sample ID: SL-204-SA6-SB-4.0-5.0	Collected: 9/6/2011 12:45:00	Analysis Type: RES	Dilution: 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.4	U	5.4	MDL	11	PQL	mg/Kg	UJ	Q

Sample ID: SL-261-SA6-SB-9.0-10.0	Collected: 9/6/2011 10:45:00	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 (C30-C40)	1.2	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-263-SA6-SB-9.0-10.0	Collected: 9/6/2011 8:44:00 AM	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 (C30-C40)	0.73	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z

Method Category:	SVOA	Method:	8082	Matrix:	SO
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Sample ID: SL-204-SA6-SB-4.0-5.0	Collected: 9/6/2011 12:45:00	Analysis Type: RES	Dilution: 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E

Sample ID: SL-261-SA6-SB-1.5-2.5	Collected: 9/6/2011 10:40:00	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
AROCLOR 1254	0.83	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.67	J	0.43	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E
Aroclor 5460	2.0	J	1.1	MDL	3.7	PQL	ug/Kg	J	Z, E

Sample ID: SL-261-SA6-SB-9.0-10.0	Collected: 9/6/2011 10:45:00	Analysis Type: RES	Dilution: 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/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: DE238

Laboratory: LL

EDD Filename: DE238_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-261-SA6-SB-9.0-10.0 Collected: 9/6/2011 10:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E

Sample ID: SL-263-SA6-SB-4.0-5.0 Collected: 9/6/2011 8:40:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E

Sample ID: SL-263-SA6-SB-9.0-10.0 Collected: 9/6/2011 8:44:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E

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

Sample ID: SL-204-SA6-SB-4.0-5.0 Collected: 9/6/2011 12:45:00 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(B)FLUORANTHENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	6.5	MDL	20	PQL	ug/Kg	J	Z, L
CHRYSENE	0.83	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-261-SA6-SB-1.5-2.5 Collected: 9/6/2011 10:40:00 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(B)FLUORANTHENE	0.96	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	20	J	6.7	MDL	20	PQL	ug/Kg	J	L
CHRYSENE	0.84	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: DE238

Laboratory: LL

EDD Filename: DE238_v1.

eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-261-SA6-SB-1.5-2.5 Collected: 9/6/2011 10:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	1.0	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
NAPHTHALENE	0.93	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	0.78	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-261-SA6-SB-9.0-10.0 Collected: 9/6/2011 10:45:00 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	10	J	6.6	MDL	20	PQL	ug/Kg	J	Z, L

Method Category:	SVOA	
Method:	8330A	Matrix: SO

Sample ID: SL-204-SA6-SB-4.0-5.0 Collected: 9/6/2011 12:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRINITROBENZENE	43	U	43	MDL	130	PQL	ug/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: DE238

Laboratory: LL

EDD Filename: DE238_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: DE238

Laboratory: LL

EDD Filename: DE238_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: DE238

Laboratory: LL

EDD Filename: DE238_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

DE238

Method Blank Outlier Report

Lab Reporting Batch ID: DE238

Laboratory: LL

EDD Filename: DE238_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P25508GB220415	9/16/2011 4:15:00 AM	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS TIN	11.7 mg/Kg 5.85 mg/Kg 7.11 mg/Kg 0.594 mg/Kg 0.0392 mg/Kg 1.07 mg/Kg 1.58 mg/Kg	SL-204-SA6-SB-4.0-5.0 SL-261-SA6-SB-1.5-2.5 SL-261-SA6-SB-9.0-10.0 SL-263-SA6-SB-4.0-5.0 SL-263-SA6-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-204-SA6-SB-4.0-5.0(RES)	TIN	3.01 mg/Kg	3.01U mg/Kg
SL-261-SA6-SB-1.5-2.5(RES)	TIN	3.01 mg/Kg	3.01U mg/Kg
SL-261-SA6-SB-9.0-10.0(RES)	TIN	3.09 mg/Kg	3.09U mg/Kg
SL-263-SA6-SB-4.0-5.0(RES)	TIN	3.25 mg/Kg	3.25U mg/Kg
SL-263-SA6-SB-9.0-10.0(RES)	TIN	3.30 mg/Kg	3.30U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P25526AB221226A	9/14/2011 12:26:00 PM	COPPER	0.102 mg/Kg	SL-204-SA6-SB-4.0-5.0 SL-261-SA6-SB-1.5-2.5 SL-261-SA6-SB-9.0-10.0 SL-263-SA6-SB-4.0-5.0 SL-263-SA6-SB-9.0-10.0
P25526AB221226D	9/14/2011 12:26:00 PM	BARIUM	0.218 mg/Kg	SL-204-SA6-SB-4.0-5.0 SL-261-SA6-SB-1.5-2.5 SL-261-SA6-SB-9.0-10.0 SL-263-SA6-SB-4.0-5.0 SL-263-SA6-SB-9.0-10.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE238

Laboratory: LL

EDD Filename: DE238_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-204-SA6-SB-4.0-5.0MS SL-204-SA6-SB-4.0-5.0MSD (SL-204-SA6-SB-4.0-5.0)	DIETHYLENE GLYCOL	45	47	59.00-109.00	-	DIETHYLENE GLYCOL	J (all detects) UJ (all non-detects)

Method: 8330A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-204-SA6-SB-4.0-5.0MS (SL-204-SA6-SB-4.0-5.0)	1,3,5-TRINITROBENZENE	80	-	82.00-126.00	-	1,3,5-TRINITROBENZENE	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE238

Laboratory: LL

EDD Filename: DE238_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12532AQ242123A P12532AY242141A (SL-204-SA6-SB-4.0-5.0 SL-261-SA6-SB-1.5-2.5 SL-261-SA6-SB-9.0-10.0 SL-263-SA6-SB-4.0-5.0 SL-263-SA6-SB-9.0-10.0)	Aroclor 5442	116	-	36.00-106.00	42 (30.00)	Aroclor 5442, 5432, 5460	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
P25526AQ221229A (SL-204-SA6-SB-4.0-5.0 SL-261-SA6-SB-1.5-2.5 SL-261-SA6-SB-9.0-10.0 SL-263-SA6-SB-4.0-5.0 SL-263-SA6-SB-9.0-10.0)	ANTIMONY	64	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P25508GQ220419 (SL-204-SA6-SB-4.0-5.0 SL-261-SA6-SB-1.5-2.5 SL-261-SA6-SB-9.0-10.0 SL-263-SA6-SB-4.0-5.0 SL-263-SA6-SB-9.0-10.0)	ALUMINUM IRON	138 124	-	80.00-120.00 80.00-120.00	- -	ALUMINUM IRON	No Qual, SRM within limits

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P5LCLCSQ262112 (SL-204-SA6-SB-4.0-5.0 SL-261-SA6-SB-1.5-2.5 SL-261-SA6-SB-9.0-10.0 SL-263-SA6-SB-4.0-5.0 SL-263-SA6-SB-9.0-10.0)	BIS(2-ETHYLHEXYL)PHTHALAT	150	-	67.00-143.00	-	BIS(2-ETHYLHEXYL)PHTHALA	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE238

Laboratory: LL

EDD Filename: DE238_v1.

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-204-SA6-SB-4.0-5.0	Nitrate-NO3	J	1.5	1.7	PQL	mg/Kg	J (all detects)
SL-261-SA6-SB-1.5-2.5	Nitrate-NO3	J	0.96	1.7	PQL	mg/Kg	J (all detects)
SL-261-SA6-SB-9.0-10.0	FLUORIDE	J	1.0	1.1	PQL	mg/Kg	J (all detects)
	Nitrate-NO3	J	1.3	1.7	PQL	mg/Kg	
SL-263-SA6-SB-4.0-5.0	Nitrate-NO3	J	1.4	1.6	PQL	mg/Kg	J (all detects)
SL-263-SA6-SB-9.0-10.0	Nitrate-NO3	J	1.5	1.7	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-204-SA6-SB-4.0-5.0	SODIUM	J	106	108	PQL	mg/Kg	J (all detects)
	TIN	J	3.01	10.8	PQL	mg/Kg	
	Zirconium	J	2.74	5.39	PQL	mg/Kg	
SL-261-SA6-SB-1.5-2.5	SODIUM	J	90.8	111	PQL	mg/Kg	J (all detects)
	TIN	J	3.01	11.1	PQL	mg/Kg	
	Zirconium	J	3.26	5.57	PQL	mg/Kg	
SL-261-SA6-SB-9.0-10.0	SODIUM	J	83.0	111	PQL	mg/Kg	J (all detects)
	TIN	J	3.09	11.1	PQL	mg/Kg	
	Zirconium	J	2.42	5.53	PQL	mg/Kg	
SL-263-SA6-SB-4.0-5.0	SODIUM	J	107	109	PQL	mg/Kg	J (all detects)
	TIN	J	3.25	10.9	PQL	mg/Kg	
	Zirconium	J	3.15	5.45	PQL	mg/Kg	
SL-263-SA6-SB-9.0-10.0	TIN	J	3.30	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.60	5.47	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-204-SA6-SB-4.0-5.0	ANTIMONY	J	0.0796	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.113	0.423	PQL	mg/Kg	
	SILVER	J	0.0449	0.106	PQL	mg/Kg	
SL-261-SA6-SB-1.5-2.5	ANTIMONY	J	0.114	0.214	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.159	0.428	PQL	mg/Kg	
SL-261-SA6-SB-9.0-10.0	SELENIUM	J	0.0786	0.430	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0544	0.107	PQL	mg/Kg	
	THALLIUM	J	0.220	0.537	PQL	mg/Kg	
SL-263-SA6-SB-4.0-5.0	CADMIUM	J	0.0687	0.108	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0483	0.108	PQL	mg/Kg	
SL-263-SA6-SB-9.0-10.0	SILVER	J	0.0306	0.111	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE238

Laboratory: LL

EDD Filename: DE238_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-204-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.40	1.1	PQL	mg/Kg	J (all detects)
SL-261-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.40	1.1	PQL	mg/Kg	J (all detects)
SL-263-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.40	1.1	PQL	mg/Kg	J (all detects)
SL-263-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.55	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-204-SA6-SB-4.0-5.0	MERCURY	J	0.0150	0.103	PQL	mg/Kg	J (all detects)
SL-261-SA6-SB-1.5-2.5	MERCURY	J	0.0108	0.108	PQL	mg/Kg	J (all detects)
SL-261-SA6-SB-9.0-10.0	MERCURY	J	0.0089	0.103	PQL	mg/Kg	J (all detects)
SL-263-SA6-SB-9.0-10.0	MERCURY	J	0.0107	0.113	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-204-SA6-SB-4.0-5.0	EFH (C12-C14)	J	0.87	1.3	PQL	mg/Kg	J (all detects)
	EFH (C15-C20)	J	0.48	1.3	PQL	mg/Kg	
	EFH (C30-C40)	J	0.96	1.3	PQL	mg/Kg	
SL-261-SA6-SB-9.0-10.0	EFH (C30-C40)	J	1.2	1.3	PQL	mg/Kg	J (all detects)
SL-263-SA6-SB-9.0-10.0	EFH (C30-C40)	J	0.73	1.3	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-261-SA6-SB-1.5-2.5	AROCLOR 1254	J	0.83	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.67	1.9	PQL	ug/Kg	
	Aroclor 5460	J	2.0	3.7	PQL	ug/Kg	

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-204-SA6-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	1.3	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	20	PQL	ug/Kg	
	CHRYSENE	J	0.83	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	
	PYRENE	J	1.2	1.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE238

Laboratory: LL

EDD Filename: DE238_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-261-SA6-SB-1.5-2.5	BENZO(B)FLUORANTHENE	J	0.96	1.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.84	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.0	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	0.93	1.9	PQL	ug/Kg	
	PYRENE	J	0.78	1.9	PQL	ug/Kg	
SL-261-SA6-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	20	PQL	ug/Kg	J (all detects)

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	N	1, SW, 12/27/11 JHT/A SB.
VII.	Duplicate Sample Analysis	NA	
VIII.	Laboratory Control Samples (LCS)	NA	LC
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Gr, V JHT
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV.	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: 501

1	SL-204-SA6-SB-4.0-5.0	11		21		31	
2	SL-261-SA6-SB-1.5-2.5	12		22		32	
3	SL-261-SA6-SB-9.0-10.0	13		23		33	
4	SL-263-SA6-SB-4.0-5.0	14		24		34	
5	SL-263-SA6-SB-9.0-10.0	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

**VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES**

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 200X, Hg: 167X

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: All Reason: B

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	1	2	3	5					
Sb			0.32	0.32	0.080	0.11							
Be			0.062	0.062									
Hg			0.032	0.0267	0.015	0.011	0.0089	0.011					
V			0.11	0.11									

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.: DE240
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6401588BKG Matrix Spike Lab Sample ID: 6401589MS Matrix Spike Duplicate Lab Sample ID: 6401590MSD
 & Solids for Sample: 96.0
 Batch Id(s): P25508G, P25526A, P25511B, P25526A, P25908D

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MSD Spike Added	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	23245.3610		27664.3352		27894.8500		204.2484	204.2484	208.3333	MG/KG	2164	2232	1	74X	20P	
Antimony	75	0.1326	B	0.4040		0.4671		1.2255	1.2255	1.2255	MG/KG	22N	27N	14	75-125	20MS	
Arsenic	137	5.2635		7.1691		6.9669		2.0425	2.0425	2.0425	MG/KG	93	83	3	75-125	20MS	
Barium	9	99.0809		112.5000		118.0964		10.2124	10.2124	10.2124	MG/KG	131	186	5	74X	20MS	
Beryllium	111	0.7100		1.3907		1.4097		0.8170	0.8170	0.8170	MG/KG	83	86	1	75-125	20MS	
Boron	137	13.9320		213.1883		217.4333		204.2484	204.2484	208.3333	MG/KG	98	98	2	84-115	20P	
Cadmium	111	0.2712		1.2071		1.2020		1.0212	1.0212	1.0212	MG/KG	92	91	0	75-125	20MS	
Calcium	52	51706.0852		57947.2937		51859.0490		408.4967	408.4967	416.6667	MG/KG	1528	37	11	74X	20P	
Chromium	52	27.3693		36.8873		36.6930		10.2124	10.2124	10.2124	MG/KG	93	91	1	75-125	20MS	
Cobalt	59	8.4824		61.1520		60.9886		51.0621	51.0621	51.0621	MG/KG	103	103	0	75-125	20MS	
Copper	63	14.0523		24.7753		26.2663		10.2124	10.2124	10.2124	MG/KG	105	120	6	75-125	20MS	
Iron	208	27104.5449		27461.4532		27949.5427		102.1242	102.1242	104.1667	MG/KG	349	811	2	74X	20P	
Lead	208	7.6573		11.1520		10.9393		3.0637	3.0637	3.0637	MG/KG	114	107	2	75-125	20MS	
Lithium	60	29.1121		145.9252		146.3875		102.1242	102.1242	104.1667	MG/KG	114	113	0	82-114	20P	
Magnesium	60	6997.5991		7899.3740		7821.4469		204.2484	204.2484	208.3333	MG/KG	442	395	1	74X	20P	
Manganese	78	314.2688		381.9986		366.7146		51.0621	51.0621	52.0833	MG/KG	133	101	4	74X	20P	
Mercury	98	0.0073	U	0.1613		0.1625		0.1720	0.1720	0.1666	MG/KG	94	98	1	65-135	20CV	
Molybdenum	60	0.3962		9.6977		9.7712		10.2124	10.2124	10.2124	MG/KG	91	92	1	75-125	20MS	
Nickel	60	16.8152		27.3080		27.9820		10.2124	10.2124	10.2124	MG/KG	103	109	2	75-125	20MS	
Phosphorus	60	529.5914		674.4291		668.2615		102.1242	102.1242	104.1667	MG/KG	142	133	1	74X	20P	
Potassium	78	4487.4110		6348.6479		6356.4677		1021.2418	1021.2418	1041.6667	MG/KG	182	179	0	74X	20P	
Selenium	107	0.2230	B	2.1507		2.1671		2.0425	2.0425	2.0425	MG/KG	94	95	1	75-125	20MS	
Silver	107	0.0276	B	10.0286		10.2492		10.2124	10.2124	10.2124	MG/KG	98	100	2	75-125	20MS	
Sodium	203	193.2757		1242.4592		1251.2219		1021.2418	1021.2418	1041.6667	MG/KG	103	102	1	75-125	20P	
Strontium	203	105.3509		216.3062		210.8604		102.1242	102.1242	104.1667	MG/KG	109	101	3	75-115	20P	
Thallium	203	0.3056		0.7218		0.7304		0.4085	0.4085	0.4085	MG/KG	102	104	1	75-125	20MS	
Tin	107	3.1847	B	378.4283		385.8385		408.4967	408.4967	416.6667	MG/KG	92	92	2	80-110	20P	
Titanium	51	1419.4434		1719.6895		1712.5235		100.1603	100.1603	102.1242	MG/KG	300	287	0	74X	20P	
Vanadium	51	53.4926		64.0931		67.8513		10.2124	10.2124	10.2124	MG/KG	104	141	6	74X	20MS	
Zinc	66	68.7908		77.6961		83.7623		10.2124	10.2124	10.2124	MG/KG	87	147	8	74X	20MS	
Zirconium	98	5.6988		98.1087		100.8458		102.1242	102.1242	104.1667	MG/KG	90	91	3	75-125	20P	

5b = post spike 60470

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

DE239

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
07-Sep-2011	TB-090711	6400459	TB	5030B	8015M	III
07-Sep-2011	SL-311-SA6-SB-2.0-3.0	6400458	N	3050B	6010B	III
07-Sep-2011	SL-311-SA6-SB-2.0-3.0	6400458	N	3050B	6020	III
07-Sep-2011	SL-311-SA6-SB-2.0-3.0	6400458	N	3060A	7199	III
07-Sep-2011	SL-311-SA6-SB-2.0-3.0	6400458	N	3546	1625C	III
07-Sep-2011	SL-311-SA6-SB-2.0-3.0	6400458	N	3550B	8015B	III
07-Sep-2011	SL-311-SA6-SB-2.0-3.0	6400458	N	3550B	8015M	III
07-Sep-2011	SL-311-SA6-SB-2.0-3.0	6400458	N	3550B	8082	III
07-Sep-2011	SL-311-SA6-SB-2.0-3.0	6400458	N	3550B	8270C	III
07-Sep-2011	SL-311-SA6-SB-2.0-3.0	6400458	N	3550B	8270C SIM	III
07-Sep-2011	SL-311-SA6-SB-2.0-3.0	6400458	N	5035	8015M	III
07-Sep-2011	SL-311-SA6-SB-2.0-3.0	6400458	N	8330	8330A	III
07-Sep-2011	SL-311-SA6-SB-2.0-3.0	6400458	N	METHOD	300.0	III
07-Sep-2011	SL-311-SA6-SB-2.0-3.0	6400458	N	METHOD	314.0	III
07-Sep-2011	SL-311-SA6-SB-2.0-3.0	6400458	N	METHOD	7471A	III
07-Sep-2011	SL-311-SA6-SB-2.0-3.0	6400458	N	METHOD	8015B	III
07-Sep-2011	SL-311-SA6-SB-2.0-3.0	6400458	N	METHOD	8015M	III
07-Sep-2011	SL-311-SA6-SB-2.0-3.0	6400458	N	METHOD	8315A	III
07-Sep-2011	SL-311-SA6-SB-2.0-3.0	6400458	N	METHOD	9012B	III
07-Sep-2011	SL-205-SA6-SB-4.0-5.0	6400457	N	3050B	6010B	III
07-Sep-2011	SL-205-SA6-SB-4.0-5.0	6400457	N	3050B	6020	III
07-Sep-2011	SL-205-SA6-SB-4.0-5.0	6400457	N	3060A	7199	III
07-Sep-2011	SL-205-SA6-SB-4.0-5.0	6400457	N	3546	1625C	III
07-Sep-2011	SL-205-SA6-SB-4.0-5.0	6400457	N	3550B	8015B	III
07-Sep-2011	SL-205-SA6-SB-4.0-5.0	6400457	N	3550B	8015M	III
07-Sep-2011	SL-205-SA6-SB-4.0-5.0	6400457	N	3550B	8082	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
07-Sep-2011	SL-205-SA6-SB-4.0-5.0	6400457	N	3550B	8270C	III
07-Sep-2011	SL-205-SA6-SB-4.0-5.0	6400457	N	3550B	8270C SIM	III
07-Sep-2011	SL-205-SA6-SB-4.0-5.0	6400457	N	5035	8015M	III
07-Sep-2011	SL-205-SA6-SB-4.0-5.0	6400457	N	8330	8330A	III
07-Sep-2011	SL-205-SA6-SB-4.0-5.0	6400457	N	METHOD	300.0	III
07-Sep-2011	SL-205-SA6-SB-4.0-5.0	6400457	N	METHOD	314.0	III
07-Sep-2011	SL-205-SA6-SB-4.0-5.0	6400457	N	METHOD	7471A	III
07-Sep-2011	SL-205-SA6-SB-4.0-5.0	6400457	N	METHOD	8015B	III
07-Sep-2011	SL-205-SA6-SB-4.0-5.0	6400457	N	METHOD	8015M	III
07-Sep-2011	SL-205-SA6-SB-4.0-5.0	6400457	N	METHOD	8315A	III
07-Sep-2011	SL-205-SA6-SB-4.0-5.0	6400457	N	METHOD	9012B	III
07-Sep-2011	SL-205-SA6-SB-4.0-5.0MSD	P400457M321049A	MSD	METHOD	8015M	III
07-Sep-2011	SL-205-SA6-SB-4.0-5.0MS	P400457R321036A	MS	METHOD	8015M	III
07-Sep-2011	EB-SA6-SB-090711	6400460	EB	3005A	6010B	III
07-Sep-2011	EB-SA6-SB-090711	6400460	EB	3020A	6020	III
07-Sep-2011	EB-SA6-SB-090711	6400460	EB	3510C	8015B	III
07-Sep-2011	EB-SA6-SB-090711	6400460	EB	3510C	8015M	III
07-Sep-2011	EB-SA6-SB-090711	6400460	EB	3510C	8082	III
07-Sep-2011	EB-SA6-SB-090711	6400460	EB	3510C	8270C	III
07-Sep-2011	EB-SA6-SB-090711	6400460	EB	3510C	8270C SIM	III
07-Sep-2011	EB-SA6-SB-090711	6400460	EB	3520C	1625C	III
07-Sep-2011	EB-SA6-SB-090711	6400460	EB	5030B	8015M	III
07-Sep-2011	EB-SA6-SB-090711	6400460	EB	5030B	8260B	III
07-Sep-2011	EB-SA6-SB-090711	6400460	EB	5030B	8260B SIM	III
07-Sep-2011	EB-SA6-SB-090711	6400460	EB	8330	8330A	III
07-Sep-2011	EB-SA6-SB-090711	6400460	EB	Gen Prep	300.0	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
07-Sep-2011	EB-SA6-SB-090711	6400460	EB	Gen Prep	314.0	III
07-Sep-2011	EB-SA6-SB-090711	6400460	EB	Gen Prep	7199	III
07-Sep-2011	EB-SA6-SB-090711	6400460	EB	Gen Prep	8015B	III
07-Sep-2011	EB-SA6-SB-090711	6400460	EB	Gen Prep	8015M	III
07-Sep-2011	EB-SA6-SB-090711	6400460	EB	METHOD	7470A	III
07-Sep-2011	EB-SA6-SB-090711	6400460	EB	METHOD	8315A	III
07-Sep-2011	EB-SA6-SB-090711	6400460	EB	METHOD	9012B	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE239

Laboratory: LL

EDD Filename: PrepDE239_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: AQ

Sample ID: EB-SA6-SB-090711 Collected: 9/7/2011 1:00:00 PM Analysis Type: REA3 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0105	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
STRONTIUM	0.00027	J	0.00022	MDL	0.0050	PQL	mg/L	U	B

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-205-SA6-SB-4.0-5.0 Collected: 9/7/2011 11:24:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.63	J	0.345	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	3.91	J	0.496	MDL	5.39	PQL	mg/Kg	J	Z

Sample ID: SL-311-SA6-SB-2.0-3.0 Collected: 9/7/2011 9:20:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.98	J	0.340	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	4.36	J	0.488	MDL	5.31	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-205-SA6-SB-4.0-5.0 Collected: 9/7/2011 11:24:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.119	J	0.0619	MDL	0.427	PQL	mg/Kg	J	Z

Sample ID: SL-205-SA6-SB-4.0-5.0 Collected: 9/7/2011 11:24:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0842	J	0.0790	MDL	0.214	PQL	mg/Kg	UJ	B, Q
CHROMIUM	17.2		0.128	MDL	0.427	PQL	mg/Kg	J	A
SILVER	0.0299	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	37.1		0.0235	MDL	0.107	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

1/6/2012 7:31:49 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE239

Laboratory: LL

EDD Filename: PrepDE239_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6020 **Matrix:** SO

Sample ID: SL-311-SA6-SB-2.0-3.0 Collected: 9/7/2011 9:20:00 AM 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	0.0609	MDL	0.420	PQL	mg/Kg	J	Z

Sample ID: SL-311-SA6-SB-2.0-3.0 Collected: 9/7/2011 9:20:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0900	J	0.0778	MDL	0.210	PQL	mg/Kg	UJ	B, Q
CADMIUM	0.0544	J	0.0462	MDL	0.105	PQL	mg/Kg	J	Z
CHROMIUM	33.1		0.126	MDL	0.420	PQL	mg/Kg	J	A
SILVER	0.0426	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	55.8		0.0231	MDL	0.105	PQL	mg/Kg	J	A

Method Category: METALS
Method: 7199 **Matrix:** AQ

Sample ID: EB-SA6-SB-090711 Collected: 9/7/2011 1:00:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	5.0	U	5.0	MDL	10.0	PQL	ug/L	UJ	H

Method Category: METALS
Method: 7199 **Matrix:** SO

Sample ID: SL-205-SA6-SB-4.0-5.0 Collected: 9/7/2011 11:24:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS
Method: 7471A **Matrix:** SO

Sample ID: SL-205-SA6-SB-4.0-5.0 Collected: 9/7/2011 11:24:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0082	J	0.0079	MDL	0.112	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: DE239

Laboratory: LL

EDD Filename: PrepDE239_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-311-SA6-SB-2.0-3.0 Collected: 9/7/2011 9:20:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0138	J	0.0073	MDL	0.103	PQL	mg/Kg	U	B

Method Category:	SVOA	
Method:	1625C	Matrix: AQ

Sample ID: EB-SA6-SB-090711 Collected: 9/7/2011 1:00:00 PM 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	2.79		0.513	MDL	1.03	PQL	ng/L	J	S

Method Category:	SVOA	
Method:	8015M	Matrix: AQ

Sample ID: EB-SA6-SB-090711 Collected: 9/7/2011 1:00:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHYLENE GLYCOL	20	U	20	MDL	200	PQL	mg/L	UJ	E
Propylene glycol	20	U	20	MDL	200	PQL	mg/L	UJ	E

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-205-SA6-SB-4.0-5.0 Collected: 9/7/2011 11:24:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.6	U	5.6	MDL	11	PQL	mg/Kg	UJ	Q

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-311-SA6-SB-2.0-3.0 Collected: 9/7/2011 9:20:00 AM 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	53	J	18	MDL	360	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: DE239

Laboratory: LL

EDD Filename: PrepDE239_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C SIM	Matrix: AQ

Sample ID: EB-SA6-SB-090711 Collected: 9/7/2011 1:00:00 PM 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	0.073	J	0.051	MDL	1.0	PQL	ug/L	U	B
Diethylphthalate	0.23	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.68	J	0.051	MDL	1.0	PQL	ug/L	U	B

Method Category:	SVOA	
Method:	8330A	Matrix: AQ

Sample ID: EB-SA6-SB-090711 Collected: 9/7/2011 1:00:00 PM Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRINITROBENZENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	L
4-AMINO-2,6-DINITROTOLUENE	0.38	J	0.30	MDL	0.60	PQL	ug/L	J	Z
Tetryl	0.40	U	0.40	MDL	0.60	PQL	ug/L	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: DE239

Laboratory: LL

EDD Filename: PrepDE239_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
	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
F	Equipment Blank Contamination

* 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: DE239

Laboratory: LL

EDD Filename: PrepDE239_v1

eQAPP Name: CDM_SSFL_110509

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
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* 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: DE239

Laboratory: LL

EDD Filename: PrepDE239_v1

eQAPP Name: CDM_SSFL_110509

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

DE239

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE239
EDD Filename: DE239_v1.

Laboratory: LL
eQAPP Name: CDM_SSFL_110509

Method: 7199 Preparation Method: Gen Prep
Matrix: AQ

<i>Sample ID</i>	<i>Type</i>	<i>Actual</i>	<i>Criteria</i>	<i>Units</i>	<i>Flag</i>
EB-SA6-SB-090711 (RES)	Sampling To Analysis	46.00	24.00	HOURS	J (all detects) UJ (all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE239

Laboratory: LL

EDD Filename: DE239_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P25648CB222204	9/15/2011 10:04:00 PM	BORON MAGNESIUM STRONTIUM	0.0111 mg/L 0.0151 mg/L 0.00043 mg/L	EB-SA6-SB-090711

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-SA6-SB-090711(REA3)	BORON	0.0105 mg/L	0.0105U mg/L
EB-SA6-SB-090711(REA3)	STRONTIUM	0.00027 mg/L	0.00027U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P25508GB220415	9/16/2011 4:15:00 AM	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS TIN	11.7 mg/Kg 5.85 mg/Kg 7.11 mg/Kg 0.594 mg/Kg 0.0392 mg/Kg 1.07 mg/Kg 1.58 mg/Kg	SL-205-SA6-SB-4.0-5.0 SL-311-SA6-SB-2.0-3.0

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-205-SA6-SB-4.0-5.0(RES)	TIN	3.63 mg/Kg	3.63U mg/Kg
SL-311-SA6-SB-2.0-3.0(RES)	TIN	3.98 mg/Kg	3.98U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P25526AB221226A	9/14/2011 12:26:00 PM	COPPER	0.102 mg/Kg	SL-205-SA6-SB-4.0-5.0 SL-311-SA6-SB-2.0-3.0
P25526AB221226D	9/14/2011 12:26:00 PM	BARIUM	0.218 mg/Kg	SL-205-SA6-SB-4.0-5.0 SL-311-SA6-SB-2.0-3.0

Method: 7470A
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P25913DB220822	9/19/2011 8:22:00 AM	MERCURY	0.000028 mg/L	EB-SA6-SB-090711

Method Blank Outlier Report

Lab Reporting Batch ID: DE239

Laboratory: LL

EDD Filename: DE239_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWX25B261033	9/14/2011 10:33:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-butylphthalate	0.11 ug/L 0.083 ug/L	EB-SA6-SB-090711

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-SA6-SB-090711(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.073 ug/L	1.0U ug/L
EB-SA6-SB-090711(RES)	Di-n-butylphthalate	0.68 ug/L	1.0U ug/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE239

Laboratory: LL

EDD Filename: DE239_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-205-SA6-SB-4.0-5.0MS SL-205-SA6-SB-4.0-5.0MSD (SL-205-SA6-SB-4.0-5.0)	DIETHYLENE GLYCOL	56	53	59.00-109.00	-	DIETHYLENE GLYCOL	J (all detects) UJ (all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE239

Laboratory: LL

EDD Filename: DE239_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12552AY321248A (EB-SA6-SB-090711)	ETHYLENE GLYCOL Propylene glycol	- -	- -	78.00-136.00 65.00-132.00	40 (30.00) 40 (30.00)	ETHYLENE GLYCOL Propylene glycol	J (all detects) UJ (all non-detects)

Method: 8082
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12557AQ240550A (EB-SA6-SB-090711)	Aroclor 5442, 5432, 5460	88	-	35.00-84.00	-	Aroclor 5442, 5432, 5460	J(all detects)

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12550AQ240449A P12550AY240532A (EB-SA6-SB-090711)	1,3,5-TRINITROBENZENE Tetryl	49 33	- 38	53.00-129.00 72.00-141.00	- -	1,3,5-TRINITROBENZENE Tetryl	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
P25526AQ221229A (SL-205-SA6-SB-4.0-5.0 SL-311-SA6-SB-2.0-3.0)	ANTIMONY	64	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P25508GQ220419 (SL-205-SA6-SB-4.0-5.0 SL-311-SA6-SB-2.0-3.0)	ALUMINUM IRON	138 124	- -	80.00-120.00 80.00-120.00	- -	ALUMINUM IRON	No Qual, SRM within Limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE239

Laboratory: LL

EDD Filename: DE239_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P5LCLCSQ262112 (SL-205-SA6-SB-4.0-5.0 SL-311-SA6-SB-2.0-3.0)	BIS(2-ETHYLHEXYL)PHTHALAT	150	-	67.00-143.00	-	BIS(2-ETHYLHEXYL)PHTHALA	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE239

Laboratory: LL

EDD Filename: DE239_v1.

eQAPP Name: CDM_SSFL_110509

Method: 1625C

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-SA6-SB-090711	N-Nitrosodimethylamine-d6	257	50.00-150.00	All Target Analytes	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE239

Laboratory: LL

EDD Filename: DE239_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-090711	BORON STRONTIUM	J	0.0105	0.0500	PQL	mg/L	J (all detects)
		J	0.00027	0.0050	PQL	mg/L	

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-090711	BIS(2-ETHYLHEXYL)PHTHALATE Diethylphthalate Di-n-butylphthalate	J	0.073	1.0	PQL	ug/L	J (all detects)
		J	0.23	1.0	PQL	ug/L	
		J	0.68	1.0	PQL	ug/L	

Method: 8330A

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-090711	4-AMINO-2,6-DINITROTOLUENE	J	0.38	0.60	PQL	ug/L	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-205-SA6-SB-4.0-5.0	TIN Zirconium	J	3.63	10.8	PQL	mg/Kg	J (all detects)
		J	3.91	5.39	PQL	mg/Kg	
SL-311-SA6-SB-2.0-3.0	TIN Zirconium	J	3.98	10.6	PQL	mg/Kg	J (all detects)
		J	4.36	5.31	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-205-SA6-SB-4.0-5.0	ANTIMONY SELENIUM SILVER	J	0.0842	0.214	PQL	mg/Kg	J (all detects)
		J	0.119	0.427	PQL	mg/Kg	
		J	0.0299	0.107	PQL	mg/Kg	
SL-311-SA6-SB-2.0-3.0	ANTIMONY CADMIUM SELENIUM SILVER	J	0.0900	0.210	PQL	mg/Kg	J (all detects)
		J	0.0544	0.105	PQL	mg/Kg	
		J	0.169	0.420	PQL	mg/Kg	
		J	0.0426	0.105	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-205-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.32	1.1	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: DE239

Laboratory: LL

EDD Filename: DE239_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-205-SA6-SB-4.0-5.0	MERCURY	J	0.0082	0.112	PQL	mg/Kg	J (all detects)
SL-311-SA6-SB-2.0-3.0	MERCURY	J	0.0138	0.103	PQL	mg/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-311-SA6-SB-2.0-3.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	53	360	PQL	ug/Kg	J (all detects)

LDC #: 2685914
 SDG #: DE239
 Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET
 ADR

Date: 12/17/11
 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	N SW	Sb = (T/WI/A 50%)
VII.	Duplicate Sample Analysis	NA	
VIII.	Laboratory Control Samples (LCS)	NA	SPM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Cr, V: (T/WI/A 50%)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV.	Field Blanks	SW	FB=3

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-205-SA6-SB-4.0-5.0	11		21		31	
2	SL-311-SA6-SB-2.0-3.0	12		22		32	
3	EB-SA6-SB-090711	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	

Notes: _____

VALIDATION FINDINGS WORKSHEET

PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

Soil preparation factor applied: 200X, Hg: 167X

Associated Samples: All Soil Reason: B

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	1	2							
Sb			0.32	0.32	0.084	0.090							
Be			0.062	0.062									
Hg			0.032	0.0267	0.0082	0.014							
V			0.11	0.11									

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.

VALIDATION FINDINGS WORKSHEET
Field Blanks

METHOD: Trace Metals (EPA SW846 6010B/6020/7000)

N/A Were field blanks identified in this SDG?
 N/A Were target analytes detected in the field blanks?

Blank units: ug/L **Associated sample units:** mg/Kg

Sampling date: 9/7/11 **Soil factor applied:** 100X

Field blank type: (circle one) Field Blank / Rinsate / Other: _____

Associated Samples: All Soil (>5X) **Reason Code:** F

Analyte		Blank ID	Sample Identification																	
		7																		
B		10.5																		
Sr		0.27																		

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.: DE240
 Matrix: SOIL Level (Low/med): LOW

Background Lab Sample ID: 6401588BKG Matrix Spike Lab Sample ID: 6401589MS Matrix Spike Duplicate Lab Sample ID: 6401590MSD
 & Solids for Sample: 96.0
 Batch ID(s): P25508G, P25526A, P25511B, P25826A, P25908D

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		23245.3610		27664.3352		27894.8500		204.2484	208.3333	MG/KG	2164	2232	1	2232	74X	20P
Antimony	121	0.1326	B	0.4040		0.4671		1.2255	1.2255	MG/KG	22	27	N	83	75-125	20MS
Arsenic	75	5.2635		7.1691		6.9669		2.0425	2.0425	MG/KG	93	83		186	75-125	20MS
Barium	137	99.0809		112.5000		118.0964		10.2124	10.2124	MG/KG	131	86		98	75-125	20MS
Beryllium	9	0.7100		1.3907		1.4097		0.8170	0.8170	MG/KG	83	98		91	84-115	20P
Boron		13.9320		213.1883		217.4333		204.2484	208.3333	MG/KG	98	98		91	75-125	20MS
Cadmium	111	0.2712		1.2071		1.2020		1.0212	1.0212	MG/KG	92	91		91	75-125	20MS
Calcium		51706.0852		57947.2937		51859.0490		408.4967	416.6667	MG/KG	1528	37	11	37	74X	20P
Chromium	52	27.3693		36.8873		36.6830		10.2124	10.2124	MG/KG	93	91		91	75-125	20MS
Cobalt	59	8.4824		61.1520		60.9886		51.0621	51.0621	MG/KG	103	103		103	75-125	20MS
Copper	63	14.0523		24.7753		26.2663		10.2124	10.2124	MG/KG	105	120		120	75-125	20MS
Iron		27104.5449		27461.4532		27949.5427		102.1242	104.1667	MG/KG	349	811		811	74X	20P
Lead	208	7.6573		11.1520		10.9293		3.0637	3.0637	MG/KG	114	107		107	75-125	20MS
Lithium		29.1121		145.9252		146.3875		102.1242	104.1667	MG/KG	114	113		113	82-114	20P
Magnesium		6997.5991		7899.3740		7821.4469		204.2484	208.3333	MG/KG	442	395		395	74X	20P
Manganese		314.2688		381.9986		366.7146		51.0621	52.0833	MG/KG	133	101		101	74X	20P
Mercury		0.0073	U	0.1613		0.1625		0.1720	0.1666	MG/KG	94	98		98	65-135	20CV
Molybdenum	98	0.3962		9.6977		9.7712		10.2124	10.2124	MG/KG	91	92		92	75-125	20MS
Nickel	60	16.8152		27.3080		27.9820		10.2124	10.2124	MG/KG	103	109		109	75-125	20MS
Phosphorus		529.5914		674.4291		668.2615		102.1242	104.1667	MG/KG	142	133		133	74X	20P
Potassium		4487.4110		6348.6479		6356.4677		1021.2418	1041.6667	MG/KG	182	179		179	74X	20P
Selenium	78	0.2230	B	2.1507		2.1671		2.0425	2.0425	MG/KG	94	95		95	75-125	20MS
Silver	107	0.0276	B	10.0286		10.2492		10.2124	10.2124	MG/KG	98	100		100	75-125	20MS
Sodium		193.2757		1242.4592		1251.2219		1021.2418	1041.6667	MG/KG	103	102		102	75-125	20P
Strontium		105.3509		216.3062		210.8604		102.1242	104.1667	MG/KG	109	101		101	75-115	20P
Thallium	203	0.3056		0.7218		0.7304		0.4085	0.4085	MG/KG	102	104		104	75-125	20MS
Tin		3.1847	B	378.4283		385.8385		408.4967	416.6667	MG/KG	92	92		92	80-110	20P
Titanium		1419.4434		1719.6895		1712.5235		100.1603	102.1242	MG/KG	300	287		287	74X	20P
Vanadium	51	53.4926		64.0931		67.8513		10.2124	10.2124	MG/KG	104	141		141	74X	20MS
Zinc	66	68.7908		77.6961		83.7623		10.2124	10.2124	MG/KG	87	147		147	74X	20MS
Zirconium		5.6988		98.1087		100.8458		102.1242	104.1667	MG/KG	90	91		91	75-125	20P

5b = post spike 60470

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

SAMPLE DELIVERY GROUP

DE240

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
09-Sep-2011	TB-090911	6401599	TB	5030B	8015M	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0	6401588	N	3050B	6010B	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0	6401588	N	3050B	6020	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0	6401588	N	3060A	7199	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0	6401588	N	3550B	8082	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0	6401588	N	3550B	8270C	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0	6401588	N	3550B	8270C SIM	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0	6401588	N	METHOD	300.0	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0	6401588	N	METHOD	314.0	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0	6401588	N	METHOD	7471A	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0MS	6401589	MS	3050B	6010B	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0MS	6401589	MS	3050B	6020	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0MS	6401589	MS	3060A	7199	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0MS	6401589	MS	3550B	8082	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0MS	6401589	MS	3550B	8270C	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0MS	6401589	MS	3550B	8270C SIM	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0MS	6401589	MS	METHOD	300.0	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0MS	6401589	MS	METHOD	314.0	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0MS	6401589	MS	METHOD	7471A	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0MSD	6401590	MSD	3050B	6010B	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0MSD	6401590	MSD	3050B	6020	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0MSD	6401590	MSD	3550B	8082	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0MSD	6401590	MSD	3550B	8270C	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0MSD	6401590	MSD	3550B	8270C SIM	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0MSD	6401590	MSD	METHOD	7471A	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0DUP	6401591	DUP	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Sep-2011	SL-001-SA6-SB-0.0-1.0DUP	6401591	DUP	3050B	6020	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0DUP	6401591	DUP	3060A	7199	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0DUP	6401591	DUP	METHOD	300.0	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0DUP	6401591	DUP	METHOD	314.0	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0DUP	6401591	DUP	METHOD	7471A	III
09-Sep-2011	DUP15-SA6-QC-090911	6401598	FD	3050B	6010B	III
09-Sep-2011	DUP15-SA6-QC-090911	6401598	FD	3050B	6020	III
09-Sep-2011	DUP15-SA6-QC-090911	6401598	FD	3060A	7199	III
09-Sep-2011	DUP15-SA6-QC-090911	6401598	FD	3550B	8082	III
09-Sep-2011	DUP15-SA6-QC-090911	6401598	FD	3550B	8270C	III
09-Sep-2011	DUP15-SA6-QC-090911	6401598	FD	3550B	8270C SIM	III
09-Sep-2011	DUP15-SA6-QC-090911	6401598	FD	METHOD	300.0	III
09-Sep-2011	DUP15-SA6-QC-090911	6401598	FD	METHOD	314.0	III
09-Sep-2011	DUP15-SA6-QC-090911	6401598	FD	METHOD	7471A	III
09-Sep-2011	SL-217-SA6-SB-4.0-5.0	6401596	N	3050B	6010B	III
09-Sep-2011	SL-217-SA6-SB-4.0-5.0	6401596	N	3050B	6020	III
09-Sep-2011	SL-217-SA6-SB-4.0-5.0	6401596	N	3060A	7199	III
09-Sep-2011	SL-217-SA6-SB-4.0-5.0	6401596	N	3546	1625C	III
09-Sep-2011	SL-217-SA6-SB-4.0-5.0	6401596	N	3550B	8015B	III
09-Sep-2011	SL-217-SA6-SB-4.0-5.0	6401596	N	3550B	8015M	III
09-Sep-2011	SL-217-SA6-SB-4.0-5.0	6401596	N	3550B	8082	III
09-Sep-2011	SL-217-SA6-SB-4.0-5.0	6401596	N	3550B	8270C	III
09-Sep-2011	SL-217-SA6-SB-4.0-5.0	6401596	N	3550B	8270C SIM	III
09-Sep-2011	SL-217-SA6-SB-4.0-5.0	6401596	N	5035	8015M	III
09-Sep-2011	SL-217-SA6-SB-4.0-5.0	6401596	N	8330	8330A	III
09-Sep-2011	SL-217-SA6-SB-4.0-5.0	6401596	N	METHOD	300.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Sep-2011	SL-217-SA6-SB-4.0-5.0	6401596	N	METHOD	314.0	III
09-Sep-2011	SL-217-SA6-SB-4.0-5.0	6401596	N	METHOD	6850	III
09-Sep-2011	SL-217-SA6-SB-4.0-5.0	6401596	N	METHOD	7471A	III
09-Sep-2011	SL-217-SA6-SB-4.0-5.0	6401596	N	METHOD	8015B	III
09-Sep-2011	SL-217-SA6-SB-4.0-5.0	6401596	N	METHOD	8015M	III
09-Sep-2011	SL-217-SA6-SB-4.0-5.0	6401596	N	METHOD	8315A	III
09-Sep-2011	SL-217-SA6-SB-4.0-5.0	6401596	N	METHOD	9012B	III
09-Sep-2011	SL-217-SA6-SB-7.5-8.5	6401597	N	3050B	6010B	III
09-Sep-2011	SL-217-SA6-SB-7.5-8.5	6401597	N	3050B	6020	III
09-Sep-2011	SL-217-SA6-SB-7.5-8.5	6401597	N	3060A	7199	III
09-Sep-2011	SL-217-SA6-SB-7.5-8.5	6401597	N	3546	1625C	III
09-Sep-2011	SL-217-SA6-SB-7.5-8.5	6401597	N	3550B	8015B	III
09-Sep-2011	SL-217-SA6-SB-7.5-8.5	6401597	N	3550B	8015M	III
09-Sep-2011	SL-217-SA6-SB-7.5-8.5	6401597	N	3550B	8082	III
09-Sep-2011	SL-217-SA6-SB-7.5-8.5	6401597	N	3550B	8270C	III
09-Sep-2011	SL-217-SA6-SB-7.5-8.5	6401597	N	3550B	8270C SIM	III
09-Sep-2011	SL-217-SA6-SB-7.5-8.5	6401597	N	5035	8015M	III
09-Sep-2011	SL-217-SA6-SB-7.5-8.5	6401597	N	8330	8330A	III
09-Sep-2011	SL-217-SA6-SB-7.5-8.5	6401597	N	METHOD	300.0	III
09-Sep-2011	SL-217-SA6-SB-7.5-8.5	6401597	N	METHOD	314.0	III
09-Sep-2011	SL-217-SA6-SB-7.5-8.5	6401597	N	METHOD	7471A	III
09-Sep-2011	SL-217-SA6-SB-7.5-8.5	6401597	N	METHOD	8015B	III
09-Sep-2011	SL-217-SA6-SB-7.5-8.5	6401597	N	METHOD	8015M	III
09-Sep-2011	SL-217-SA6-SB-7.5-8.5	6401597	N	METHOD	8315A	III
09-Sep-2011	SL-217-SA6-SB-7.5-8.5	6401597	N	METHOD	9012B	III
09-Sep-2011	SL-210-SA6-SB-4.0-5.0	6401594	N	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Sep-2011	SL-210-SA6-SB-4.0-5.0	6401594	N	3050B	6020	III
09-Sep-2011	SL-210-SA6-SB-4.0-5.0	6401594	N	3060A	7199	III
09-Sep-2011	SL-210-SA6-SB-4.0-5.0	6401594	N	3546	1625C	III
09-Sep-2011	SL-210-SA6-SB-4.0-5.0	6401594	N	3550B	8015B	III
09-Sep-2011	SL-210-SA6-SB-4.0-5.0	6401594	N	3550B	8015M	III
09-Sep-2011	SL-210-SA6-SB-4.0-5.0	6401594	N	3550B	8082	III
09-Sep-2011	SL-210-SA6-SB-4.0-5.0	6401594	N	3550B	8270C	III
09-Sep-2011	SL-210-SA6-SB-4.0-5.0	6401594	N	3550B	8270C SIM	III
09-Sep-2011	SL-210-SA6-SB-4.0-5.0	6401594	N	5035	8015M	III
09-Sep-2011	SL-210-SA6-SB-4.0-5.0	6401594	N	8330	8330A	III
09-Sep-2011	SL-210-SA6-SB-4.0-5.0	6401594	N	METHOD	300.0	III
09-Sep-2011	SL-210-SA6-SB-4.0-5.0	6401594	N	METHOD	314.0	III
09-Sep-2011	SL-210-SA6-SB-4.0-5.0	6401594	N	METHOD	7471A	III
09-Sep-2011	SL-210-SA6-SB-4.0-5.0	6401594	N	METHOD	8015B	III
09-Sep-2011	SL-210-SA6-SB-4.0-5.0	6401594	N	METHOD	8015M	III
09-Sep-2011	SL-210-SA6-SB-4.0-5.0	6401594	N	METHOD	8315A	III
09-Sep-2011	SL-210-SA6-SB-4.0-5.0	6401594	N	METHOD	9012B	III
09-Sep-2011	SL-210-SA6-SB-4.0-5.0DUP	P401594D271827A	DUP	METHOD	9012B	III
09-Sep-2011	SL-210-SA6-SB-4.0-5.0MSD	P401594M320558A	MSD	3550B	8015M	III
09-Sep-2011	SL-210-SA6-SB-4.0-5.0MS	P401594R271828A	MS	METHOD	9012B	III
09-Sep-2011	SL-210-SA6-SB-4.0-5.0MS	P401594R320534A	MS	3550B	8015M	III
09-Sep-2011	SL-210-SA6-SB-9.0-10.0	6401595	N	3050B	6010B	III
09-Sep-2011	SL-210-SA6-SB-9.0-10.0	6401595	N	3050B	6020	III
09-Sep-2011	SL-210-SA6-SB-9.0-10.0	6401595	N	3060A	7199	III
09-Sep-2011	SL-210-SA6-SB-9.0-10.0	6401595	N	3546	1625C	III
09-Sep-2011	SL-210-SA6-SB-9.0-10.0	6401595	N	3550B	8015B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Sep-2011	SL-210-SA6-SB-9.0-10.0	6401595	N	3550B	8015M	III
09-Sep-2011	SL-210-SA6-SB-9.0-10.0	6401595	N	3550B	8082	III
09-Sep-2011	SL-210-SA6-SB-9.0-10.0	6401595	N	3550B	8270C	III
09-Sep-2011	SL-210-SA6-SB-9.0-10.0	6401595	N	3550B	8270C SIM	III
09-Sep-2011	SL-210-SA6-SB-9.0-10.0	6401595	N	5035	8015M	III
09-Sep-2011	SL-210-SA6-SB-9.0-10.0	6401595	N	8330	8330A	III
09-Sep-2011	SL-210-SA6-SB-9.0-10.0	6401595	N	METHOD	300.0	III
09-Sep-2011	SL-210-SA6-SB-9.0-10.0	6401595	N	METHOD	314.0	III
09-Sep-2011	SL-210-SA6-SB-9.0-10.0	6401595	N	METHOD	7471A	III
09-Sep-2011	SL-210-SA6-SB-9.0-10.0	6401595	N	METHOD	8015B	III
09-Sep-2011	SL-210-SA6-SB-9.0-10.0	6401595	N	METHOD	8015M	III
09-Sep-2011	SL-210-SA6-SB-9.0-10.0	6401595	N	METHOD	8315A	III
09-Sep-2011	SL-210-SA6-SB-9.0-10.0	6401595	N	METHOD	9012B	III
09-Sep-2011	SL-210-SA6-SB-9.0-10.0MSD	P401595M320459A	MSD	3550B	8015B	III
09-Sep-2011	SL-210-SA6-SB-9.0-10.0MS	P401595R320437A	MS	3550B	8015B	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE240

Laboratory: LL

EDD Filename: DE240_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: DUP15-SA6-QC-090911 Collected: 9/9/2011 10:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.9		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-001-SA6-SB-0.0-1.0 Collected: 9/9/2011 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	4.1		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-210-SA6-SB-4.0-5.0 Collected: 9/9/2011 3:15:00 PM 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		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-210-SA6-SB-9.0-10.0 Collected: 9/9/2011 3:20:00 PM 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		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-217-SA6-SB-4.0-5.0 Collected: 9/9/2011 1:41:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.98	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-217-SA6-SB-7.5-8.5 Collected: 9/9/2011 1:48:00 PM 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		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: DUP15-SA6-QC-090911 Collected: 9/9/2011 10:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.99	J	0.320	MDL	10.0	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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ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE240

Laboratory: LL

EDD Filename: DE240_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6010B **Matrix:** SO

Sample ID: SL-001-SA6-SB-0.0-1.0 Collected: 9/9/2011 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
TIN	3.18	J	0.324	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-210-SA6-SB-4.0-5.0 Collected: 9/9/2011 3:15:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	89.2	J	6.30	MDL	106	PQL	mg/Kg	J	Z
TIN	2.86	J	0.339	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	3.55	J	0.487	MDL	5.29	PQL	mg/Kg	J	Z

Sample ID: SL-210-SA6-SB-9.0-10.0 Collected: 9/9/2011 3:20:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.40	J	0.346	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	2.74	J	0.497	MDL	5.40	PQL	mg/Kg	J	Z

Sample ID: SL-217-SA6-SB-4.0-5.0 Collected: 9/9/2011 1:41:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.52	J	0.384	MDL	12.0	PQL	mg/Kg	U	B

Sample ID: SL-217-SA6-SB-7.5-8.5 Collected: 9/9/2011 1:48:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.37	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.77	J	0.502	MDL	5.46	PQL	mg/Kg	J	Z

Method Category: METALS
Method: 6020 **Matrix:** SO

Sample ID: DUP15-SA6-QC-090911 Collected: 9/9/2011 10:55:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.211	J	0.0586	MDL	0.404	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 8:58:54 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE240

Laboratory: LL

EDD Filename: DE240_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: DUP15-SA6-QC-090911		Collected: 9/9/2011 10:55:00		Analysis Type: RES		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.111	J	0.0748	MDL	0.202	PQL	mg/Kg	UJ	Q, B
CHROMIUM	27.0		0.121	MDL	0.404	PQL	mg/Kg	J	A
SILVER	0.0180	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z
VANADIUM	52.6		0.0222	MDL	0.101	PQL	mg/Kg	J	A

Sample ID: SL-001-SA6-SB-0.0-1.0		Collected: 9/9/2011 10:50:00		Analysis Type: REA		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.223	J	0.0592	MDL	0.408	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA6-SB-0.0-1.0		Collected: 9/9/2011 10:50:00		Analysis Type: RES		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.133	J	0.0756	MDL	0.204	PQL	mg/Kg	UJ	Q, B
CHROMIUM	27.4		0.123	MDL	0.408	PQL	mg/Kg	J	A
SILVER	0.0276	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z
VANADIUM	53.5		0.0225	MDL	0.102	PQL	mg/Kg	J	A

Sample ID: SL-210-SA6-SB-4.0-5.0		Collected: 9/9/2011 3:15:00 PM		Analysis Type: REA		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.182	J	0.0626	MDL	0.432	PQL	mg/Kg	J	Z

Sample ID: SL-210-SA6-SB-4.0-5.0		Collected: 9/9/2011 3:15:00 PM		Analysis Type: RES		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0872	J	0.0799	MDL	0.216	PQL	mg/Kg	UJ	Q, B
CHROMIUM	17.0		0.130	MDL	0.432	PQL	mg/Kg	J	A
SILVER	0.0472	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	30.7		0.0238	MDL	0.108	PQL	mg/Kg	J	A

Sample ID: SL-210-SA6-SB-9.0-10.0		Collected: 9/9/2011 3:20:00 PM		Analysis Type: RES		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0784	U	0.0784	MDL	0.212	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: DE240

Laboratory: LL

EDD Filename: DE240_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-210-SA6-SB-9.0-10.0 Collected: 9/9/2011 3:20:00 PM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	18.6		0.127	MDL	0.424	PQL	mg/Kg	J	A
SILVER	0.0420	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	34.9		0.0233	MDL	0.106	PQL	mg/Kg	J	A

Sample ID: SL-217-SA6-SB-4.0-5.0 Collected: 9/9/2011 1:41:00 PM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.262	J	0.0675	MDL	0.466	PQL	mg/Kg	J	Z

Sample ID: SL-217-SA6-SB-4.0-5.0 Collected: 9/9/2011 1:41:00 PM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.160	J	0.0861	MDL	0.233	PQL	mg/Kg	UJ	Q, B
CHROMIUM	34.0		0.140	MDL	0.466	PQL	mg/Kg	J	A
SILVER	0.0659	J	0.0165	MDL	0.116	PQL	mg/Kg	J	Z
VANADIUM	63.6		0.0256	MDL	0.116	PQL	mg/Kg	J	A

Sample ID: SL-217-SA6-SB-7.5-8.5 Collected: 9/9/2011 1:48:00 PM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0991	J	0.0609	MDL	0.420	PQL	mg/Kg	J	Z

Sample ID: SL-217-SA6-SB-7.5-8.5 Collected: 9/9/2011 1:48:00 PM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0810	J	0.0777	MDL	0.210	PQL	mg/Kg	UJ	Q, B
CHROMIUM	20.1		0.126	MDL	0.420	PQL	mg/Kg	J	A
SILVER	0.0370	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	35.8		0.0231	MDL	0.105	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: DE240

Laboratory: LL

EDD Filename: DE240_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: DUP15-SA6-QC-090911 Collected: 9/9/2011 10:55:00 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	0.21	MDL	1.0	PQL	mg/Kg	J	Z, FD

Sample ID: SL-001-SA6-SB-0.0-1.0 Collected: 9/9/2011 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	0.76	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z, FD

Sample ID: SL-210-SA6-SB-4.0-5.0 Collected: 9/9/2011 3:15:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.47	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-210-SA6-SB-9.0-10.0 Collected: 9/9/2011 3:20:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.45	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-217-SA6-SB-4.0-5.0 Collected: 9/9/2011 1:41:00 PM 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	0.25	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-217-SA6-SB-7.5-8.5 Collected: 9/9/2011 1:48:00 PM 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	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-217-SA6-SB-4.0-5.0 Collected: 9/9/2011 1:41:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0326	J	0.0081	MDL	0.115	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: DE240

Laboratory: LL

EDD Filename: DE240_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-217-SA6-SB-7.5-8.5 Collected: 9/9/2011 1:48:00 PM 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	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	1625C	Matrix: SO

Sample ID: SL-210-SA6-SB-9.0-10.0 Collected: 9/9/2011 3:20:00 PM 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	34.5	J	18.3	MDL	36.6	PQL	ng/Kg	J	Z

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-210-SA6-SB-4.0-5.0 Collected: 9/9/2011 3:15:00 PM 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	0.43	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C21-C30)	3.4		0.43	MDL	1.3	PQL	mg/Kg	J	Q
EFH (C30-C40)	6.6		0.43	MDL	1.3	PQL	mg/Kg	J	Q

Sample ID: SL-210-SA6-SB-9.0-10.0 Collected: 9/9/2011 3:20:00 PM 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)	1.1	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-217-SA6-SB-7.5-8.5 Collected: 9/9/2011 1:48:00 PM 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)	0.89	J	0.44	MDL	1.3	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: DE240

Laboratory: LL

EDD Filename: DE240_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: DUP15-SA6-QC-090911 Collected: 9/9/2011 10:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	2.5		0.35	MDL	1.8	PQL	ug/Kg	J	FD
AROCLOR 1260	3.8		0.41	MDL	1.8	PQL	ug/Kg	J	FD
Aroclor 5460	2.6	J	1.0	MDL	3.5	PQL	ug/Kg	J	Z, FD

Sample ID: SL-001-SA6-SB-0.0-1.0 Collected: 9/9/2011 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 1254	4.5		0.34	MDL	1.8	PQL	ug/Kg	J	FD
AROCLOR 1260	0.40	U	0.40	MDL	1.8	PQL	ug/Kg	UJ	FD
Aroclor 5460	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	FD

Sample ID: SL-210-SA6-SB-4.0-5.0 Collected: 9/9/2011 3:15:00 PM 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	0.64	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.76	J	0.43	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-217-SA6-SB-4.0-5.0 Collected: 9/9/2011 1:41:00 PM 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	1.5	J	0.47	MDL	2.0	PQL	ug/Kg	J	Z
Aroclor 5460	1.9	J	1.2	MDL	4.0	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-001-SA6-SB-0.0-1.0 Collected: 9/9/2011 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
2,4-DINITROPHENOL	350	U	350	MDL	1000	PQL	ug/Kg	R	Q
BENZIDINE	1200	U	1200	MDL	3500	PQL	ug/Kg	R	Q
BENZOIC ACID	170	U	170	MDL	520	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: DE240

Laboratory: LL

EDD Filename: DE240_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-217-SA6-SB-4.0-5.0 Collected: 9/9/2011 1:41:00 PM 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	100	J	20	MDL	400	PQL	ug/Kg	J	Z

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

Sample ID: SL-217-SA6-SB-4.0-5.0 Collected: 9/9/2011 1:41:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.0	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.1	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.55	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.2	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
CHRYSENE	1.4	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z
FLUORANTHENE	1.1	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
FLUORENE	1.4	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
NAPHTHALENE	0.90	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z

Method Category:	VOA	
Method:	8015B	Matrix: SO

Sample ID: SL-217-SA6-SB-4.0-5.0 Collected: 9/9/2011 1:41:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	140	J	120	MDL	610	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: DE240

Laboratory: LL

EDD Filename: DE240_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: DE240

Laboratory: LL

EDD Filename: DE240_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: DE240

Laboratory: LL

EDD Filename: DE240_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

DE240

Method Blank Outlier Report

Lab Reporting Batch ID: DE240

Laboratory: LL

EDD Filename: DE240_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B				
Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P25508GB220415	9/16/2011 4:15:00 AM	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS TIN	11.7 mg/Kg 5.85 mg/Kg 7.11 mg/Kg 0.594 mg/Kg 0.0392 mg/Kg 1.07 mg/Kg 1.58 mg/Kg	DUP15-SA6-QC-090911 SL-001-SA6-SB-0.0-1.0 SL-210-SA6-SB-4.0-5.0 SL-210-SA6-SB-9.0-10.0 SL-217-SA6-SB-4.0-5.0 SL-217-SA6-SB-7.5-8.5

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
DUP15-SA6-QC-090911(RES)	TIN	2.99 mg/Kg	2.99U mg/Kg
SL-001-SA6-SB-0.0-1.0(RES)	TIN	3.18 mg/Kg	3.18U mg/Kg
SL-210-SA6-SB-4.0-5.0(RES)	TIN	2.86 mg/Kg	2.86U mg/Kg
SL-210-SA6-SB-9.0-10.0(RES)	TIN	3.40 mg/Kg	3.40U mg/Kg
SL-217-SA6-SB-4.0-5.0(RES)	TIN	3.52 mg/Kg	3.52U mg/Kg
SL-217-SA6-SB-7.5-8.5(RES)	TIN	3.37 mg/Kg	3.37U mg/Kg

Method: 6020				
Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P25526AB221226A	9/14/2011 12:26:00 PM	COPPER	0.102 mg/Kg	DUP15-SA6-QC-090911 SL-001-SA6-SB-0.0-1.0 SL-210-SA6-SB-4.0-5.0 SL-210-SA6-SB-9.0-10.0 SL-217-SA6-SB-4.0-5.0 SL-217-SA6-SB-7.5-8.5
P25526AB221226D	9/14/2011 12:26:00 PM	BARIUM	0.218 mg/Kg	DUP15-SA6-QC-090911 SL-001-SA6-SB-0.0-1.0 SL-210-SA6-SB-4.0-5.0 SL-210-SA6-SB-9.0-10.0 SL-217-SA6-SB-4.0-5.0 SL-217-SA6-SB-7.5-8.5

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE240

Laboratory: LL

EDD Filename: DE240_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-210-SA6-SB-4.0-5.0MSD (SL-210-SA6-SB-4.0-5.0)	EFH (C21-C30) EFH (C30-C40)	- -	133 162	49.00-123.00 49.00-123.00	- -	EFH (C21-C30) EFH (C30-C40)	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-SA6-SB-0.0-1.0MS (DUP15 -SA6-QC-090911 SL -001-SA6-SB-0.0-1.0 SL -210-SA6-SB-4.0-5.0 SL -210-SA6-SB-9.0-10.0 SL -217-SA6-SB-4.0-5.0 SL -217-SA6-SB-7.5-8.5)	FLUORIDE	73	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(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-SA6-SB-0.0-1.0MSD (DUP15 -SA6-QC-090911 SL -001-SA6-SB-0.0-1.0 SL -210-SA6-SB-4.0-5.0 SL -210-SA6-SB-9.0-10.0 SL -217-SA6-SB-4.0-5.0 SL -217-SA6-SB-7.5-8.5)	VANADIUM ZINC	- -	141 147	75.00-125.00 75.00-125.00	- -	VANADIUM ZINC	No Qual, >4x
SL-001-SA6-SB-0.0-1.0MS SL-001-SA6-SB-0.0-1.0MSD (DUP15 -SA6-QC-090911 SL -001-SA6-SB-0.0-1.0 SL -210-SA6-SB-4.0-5.0 SL -210-SA6-SB-9.0-10.0 SL -217-SA6-SB-4.0-5.0 SL -217-SA6-SB-7.5-8.5)	ANTIMONY	22	27	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects) Post Spike = 104%
SL-001-SA6-SB-0.0-1.0MS SL-001-SA6-SB-0.0-1.0MSD (DUP15 -SA6-QC-090911 SL -001-SA6-SB-0.0-1.0 SL -210-SA6-SB-4.0-5.0 SL -210-SA6-SB-9.0-10.0 SL -217-SA6-SB-4.0-5.0 SL -217-SA6-SB-7.5-8.5)	BARIUM	131	186	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE240

Laboratory: LL

EDD Filename: DE240_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-001-SA6-SB-0.0-1.0MS SL-001-SA6-SB-0.0-1.0MSD (DUP15-SA6-QC-090911 SL-001-SA6-SB-0.0-1.0 SL-210-SA6-SB-4.0-5.0 SL-210-SA6-SB-9.0-10.0 SL-217-SA6-SB-4.0-5.0 SL-217-SA6-SB-7.5-8.5)	ALUMINUM IRON MAGNESIUM MANGANESE PHOSPHORUS POTASSIUM	2164 349 442 133 142 182	2232 811 395 - 133 179	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 IRON MAGNESIUM MANGANESE PHOSPHORUS POTASSIUM	No Qual, >4x
SL-001-SA6-SB-0.0-1.0MS SL-001-SA6-SB-0.0-1.0MSD (DUP15-SA6-QC-090911 SL-001-SA6-SB-0.0-1.0 SL-210-SA6-SB-4.0-5.0 SL-210-SA6-SB-9.0-10.0 SL-217-SA6-SB-4.0-5.0 SL-217-SA6-SB-7.5-8.5)	CALCIUM	1528	37	75.00-125.00	-	CALCIUM	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-001-SA6-SB-0.0-1.0MSD (SL-001-SA6-SB-0.0-1.0)	Di-n-octylphthalate	-	127	56.00-126.00	-	Di-n-octylphthalate	J(all detects)
SL-001-SA6-SB-0.0-1.0MS SL-001-SA6-SB-0.0-1.0MSD (SL-001-SA6-SB-0.0-1.0)	2,4-DINITROPHENOL BENZIDINE BENZOIC ACID	0 0 0	0 16 -	20.00-143.00 35.00-141.00 10.00-173.00	- 200 (30.00) 200 (30.00)	2,4-DINITROPHENOL BENZIDINE BENZOIC ACID	J(all detects) R(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-001-SA6-SB-0.0-1.0MS SL-001-SA6-SB-0.0-1.0MSD (DUP15-SA6-QC-090911 SL-001-SA6-SB-0.0-1.0 SL-210-SA6-SB-4.0-5.0 SL-210-SA6-SB-9.0-10.0 SL-217-SA6-SB-4.0-5.0 SL-217-SA6-SB-7.5-8.5)	TITANIUM	300	287	75.00-125.00	-	TITANIUM	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE240

Laboratory: LL

EDD Filename: DE240_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-001-SA6-SB-0.0-1.0DUP (DUP15-SA6-QC-090911 SL -001-SA6-SB-0.0-1.0 SL -210-SA6-SB-4.0-5.0 SL -210-SA6-SB-9.0-10.0 SL -217-SA6-SB-4.0-5.0 SL -217-SA6-SB-7.5-8.5)	ANTIMONY MOLYBDENUM SILVER	28 22 30	20.00 20.00 20.00	No Qual, OK by Difference

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-001-SA6-SB-0.0-1.0DUP (DUP15-SA6-QC-090911 SL -001-SA6-SB-0.0-1.0 SL -210-SA6-SB-4.0-5.0 SL -210-SA6-SB-9.0-10.0 SL -217-SA6-SB-4.0-5.0 SL -217-SA6-SB-7.5-8.5)	HEXAVALENT CHROMIUM	73	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE240

Laboratory: LL

EDD Filename: DE240_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P25526AQ221229A (DUP15 -SA6-QC-090911 SL -001-SA6-SB-0.0-1.0 SL -210-SA6-SB-4.0-5.0 SL -210-SA6-SB-9.0-10.0 SL -217-SA6-SB-4.0-5.0 SL -217-SA6-SB-7.5-8.5)	ANTIMONY	64	-	80.00-120.00	-	ANTIMONY	No Qual SRM within Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P25508GQ220419 (DUP15 -SA6-QC-090911 SL -001-SA6-SB-0.0-1.0 SL -210-SA6-SB-4.0-5.0 SL -210-SA6-SB-9.0-10.0 SL -217-SA6-SB-4.0-5.0 SL -217-SA6-SB-7.5-8.5)	ALUMINUM IRON	138 124	- -	80.00-120.00 80.00-120.00	- -	ALUMINUM IRON	No Qual, SRM within Limits

Field Duplicate RPD Report

Lab Reporting Batch ID: DE240

Laboratory: LL

EDD Filename: DE240_v1.

eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA6-SB-0.0-1.0	DUP15-SA6-QC-090911			
MOISTURE	4.0	4.9	20		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA6-SB-0.0-1.0	DUP15-SA6-QC-090911			
FLUORIDE	4.1	3.9	5	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA6-SB-0.0-1.0	DUP15-SA6-QC-090911			
ALUMINUM	23200	23200	0	50.00	No Qualifiers Applied
BORON	13.9	14.5	4	50.00	
CALCIUM	51700	61000	17	50.00	
IRON	27100	26300	3	50.00	
LITHIUM	29.1	29.4	1	50.00	
MAGNESIUM	7000	7240	3	50.00	
MANGANESE	314	365	15	50.00	
PHOSPHORUS	530	553	4	50.00	
POTASSIUM	4490	4590	2	50.00	
SODIUM	193	208	7	50.00	
STRONTIUM	105	119	12	50.00	
TIN	3.18	2.99	6	50.00	
TITANIUM	1420	1350	5	50.00	
Zirconium	5.70	6.13	7	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA6-SB-0.0-1.0	DUP15-SA6-QC-090911			
ANTIMONY	0.133	0.111	18	50.00	No Qualifiers Applied
ARSENIC	5.26	5.08	3	50.00	
BARIUM	99.1	95.1	4	50.00	
BERYLLIUM	0.710	0.641	10	50.00	
CADMIUM	0.271	0.225	19	50.00	
CHROMIUM	27.4	27.0	1	50.00	
COBALT	8.48	9.23	8	50.00	
COPPER	14.1	13.5	4	50.00	
LEAD	7.66	8.07	5	50.00	
MOLYBDENUM	0.396	0.354	11	50.00	
NICKEL	16.8	17.4	4	50.00	
SELENIUM	0.223	0.211	6	50.00	
SILVER	0.0276	0.0180	42	50.00	
THALLIUM	0.306	0.276	10	50.00	
VANADIUM	53.5	52.6	2	50.00	
ZINC	68.8	64.2	7	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE240

Laboratory: LL

EDD Filename: DE240_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA6-SB-0.0-1.0	DUP15-SA6-QC-090911			
HEXAVALENT CHROMIUM	0.76	0.34	76	50.00	J(all detects)

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA6-SB-0.0-1.0	DUP15-SA6-QC-090911			
AROCLOR 1254	4.5	2.5	57	50.00	J(all detects) UJ(all non-detects)
AROCLOR 1260	1.8 U	3.8	200	50.00	
Aroclor 5460	3.4 U	2.6	200	50.00	

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA6-SB-0.0-1.0	DUP15-SA6-QC-090911			
BIS(2-ETHYLHEXYL)PHTHALATE	570	740	26	50.00	No Qualifiers Applied

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA6-SB-0.0-1.0	DUP15-SA6-QC-090911			
PH	8.28	8.29	0	50.00	No Qualifiers Applied