Method Blank Outlier Report

Lab Reporting Batch ID: DE211 **Laboratory: LL**

EDD Filename: DE211_v2. **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21408FB222012	8/3/2011 8:12:00 PM	ALUMINUM	6.17 mg/Kg	DUP21-SA5DN-QC-072811
		BORON	0.739 mg/Kg	SL-068-SA6-SB-19.0-20.0
		CALCIUM	11.0 mg/Kg	SL-068-SA6-SB-4.0-5.0
		IRON	4.51 mg/Kg	SL-070-SA6-SB-19.0-20.0
		MAGNESIUM	0.694 mg/Kg	SL-070-SA6-SB-4.0-5.0
		MANGANESE	0.0420 mg/Kg	SL-090-SA6-SB-3.0-4.0
		PHOSPHORUS	1.27 mg/Kg	SL-172-SA5DN-SB-4.0-5.0
		STRONTIUM	0.0620 mg/Kg	SL-172-SA5DN-SB-9.0-10.0
		TIN	1.55 mg/Kg	SL-183-SA5DN-SB-4.0-5.0
				SL-183-SA5DN-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
DUP21-SA5DN-QC-072811(RES)	TIN	2.57 mg/Kg	2.57U mg/Kg
SL-068-SA6-SB-19.0-20.0(RES)	BORON	0.622 mg/Kg	0.622U mg/Kg
SL-068-SA6-SB-19.0-20.0(RES)	TIN	1.81 mg/Kg	1.81U mg/Kg
SL-068-SA6-SB-4.0-5.0(RES)	BORON	1.72 mg/Kg	1.72U mg/Kg
SL-068-SA6-SB-4.0-5.0(RES)	TIN	2.07 mg/Kg	2.07U mg/Kg
SL-070-SA6-SB-19.0-20.0(RES)	TIN	2.36 mg/Kg	2.36U mg/Kg
SL-070-SA6-SB-4.0-5.0(RES)	TIN	2.04 mg/Kg	2.04U mg/Kg
SL-090-SA6-SB-3.0-4.0(RES)	TIN	2.42 mg/Kg	2.42U mg/Kg
SL-172-SA5DN-SB-4.0-5.0(RES)	BORON	3.65 mg/Kg	3.65U mg/Kg
SL-172-SA5DN-SB-4.0-5.0(RES)	TIN	2.66 mg/Kg	2.66U mg/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	TIN	2.21 mg/Kg	2.21U mg/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	TIN	2.68 mg/Kg	2.68U mg/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	BORON	1.18 mg/Kg	1.18U mg/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	TIN	2.63 mg/Kg	2.63U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE211 **Laboratory: LL**

EDD Filename: DE211_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-183-SA5DN-SB-4.0-5.0MS SL-183-SA5DN-SB-4.0-5.0MSD (DUP21-SA5DN-QC-072811 SL-068-SA6-SB-19.0-20.0 SL-068-SA6-SB-4.0-5.0 SL-070-SA6-SB-19.0-20.0 SL-070-SA6-SB-4.0-5.0 SL-090-SA6-SB-3.0-4.0 SL-172-SA5DN-SB-4.0-5.0 SL-172-SA5DN-SB-9.0-10.0 SL-183-SA5DN-SB-4.0-5.0 SL-183-SA5DN-SB-9.0-10.0)	ANTIMONY	30	28	75.00-125.00	-	ANTIMONY	J (all detects) UJ (all non-detects) Post Spike = 97%
SL-183-SA5DN-SB-4.0-5.0MS (DUP21-SA5DN-QC-072811 SL-068-SA6-SB-19.0-20.0 SL-068-SA6-SB-4.0-5.0 SL-070-SA6-SB-19.0-20.0 SL-070-SA6-SB-4.0-5.0 SL-090-SA6-SB-3.0-4.0 SL-172-SA5DN-SB-4.0-5.0 SL-172-SA5DN-SB-9.0-10.0 SL-183-SA5DN-SB-4.0-5.0 SL-183-SA5DN-SB-9.0-10.0)	BARIUM	129	-	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-183-SA5DN-SB-4.0-5.0MS SL-183-SA5DN-SB-4.0-5.0MSD (DUP21-SA5DN-QC-072811 SL-068-SA6-SB-19.0-20.0 SL-068-SA6-SB-4.0-5.0 SL-070-SA6-SB-19.0-20.0 SL-070-SA6-SB-4.0-5.0 SL-090-SA6-SB-3.0-4.0 SL-172-SA5DN-SB-4.0-5.0 SL-172-SA5DN-SB-9.0-10.0 SL-183-SA5DN-SB-4.0-5.0 SL-183-SA5DN-SB-9.0-10.0)	ALUMINUM IRON MAGNESIUM POTASSIUM TITANIUM	2654 2551 377 145 252	2424 914 294 142 253	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ALUMINUM IRON MAGNESIUM POTASSIUM TITANIUM	J(all detects) Al, Fe, Mg, K, Ti No qual, >4x
SL-183-SA5DN-SB-4.0-5.0MS SL-183-SA5DN-SB-4.0-5.0MSD (DUP21-SA5DN-QC-072811 SL-068-SA6-SB-19.0-20.0 SL-068-SA6-SB-4.0-5.0 SL-070-SA6-SB-19.0-20.0 SL-070-SA6-SB-4.0-5.0 SL-090-SA6-SB-3.0-4.0 SL-172-SA5DN-SB-4.0-5.0 SL-172-SA5DN-SB-9.0-10.0 SL-183-SA5DN-SB-4.0-5.0 SL-183-SA5DN-SB-9.0-10.0)	CALCIUM	-187	-37	75.00-125.00	-	CALCIUM	No qual, >4x

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE211 **Laboratory: LL**

EDD Filename: DE211_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-183-SA5DN-SB-4.0-5.0MSD (DUP21-SA5DN-QC-072811 SL-068-SA6-SB-19.0-20.0 SL-068-SA6-SB-4.0-5.0 SL-070-SA6-SB-19.0-20.0 SL-070-SA6-SB-4.0-5.0 SL-090-SA6-SB-3.0-4.0 SL-172-SA5DN-SB-4.0-5.0 SL-172-SA5DN-SB-9.0-10.0 SL-183-SA5DN-SB-4.0-5.0 SL-183-SA5DN-SB-9.0-10.0)	MANGANESE	-	67	75.00-125.00	-	MANGANESE	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-183-SA5DN-SB-4.0-5.0MS (DUP21-SA5DN-QC-072811 SL-068-SA6-SB-19.0-20.0 SL-068-SA6-SB-4.0-5.0 SL-070-SA6-SB-19.0-20.0 SL-070-SA6-SB-4.0-5.0 SL-090-SA6-SB-3.0-4.0 SL-172-SA5DN-SB-4.0-5.0 SL-172-SA5DN-SB-9.0-10.0 SL-183-SA5DN-SB-4.0-5.0 SL-183-SA5DN-SB-9.0-10.0)	FLUORIDE	64	-	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-183-SA5DN-SB-4.0-5.0MS SL-183-SA5DN-SB-4.0-5.0MSD (SL-183-SA5DN-SB-4.0-5.0)	2,4-DINITROPHENOL	-	-	20.00-143.00	100 (30.00)	2,4-DINITROPHENOL	J(all detects)
	4,6-DINITRO-2-METHYLPHENOL	-	-	24.00-116.00	66 (30.00)	4,6-DINITRO-2-METHYLPHEN	
	ACENAPHTHYLENE	112	-	81.00-110.00	-	ACENAPHTHYLENE	
	ANTHRACENE	118	-	75.00-115.00	-	ANTHRACENE	
	FLUORANTHENE	113	-	73.00-112.00	-	FLUORANTHENE	
	HEXACHLOROCYCLOPENTADI	-	-	10.00-153.00	44 (30.00)	HEXACHLOROCYCLOPENTAD	
	ISOPHORONE	103	-	73.00-102.00	-	ISOPHORONE	
	PENTACHLOROPHENOL	-	-	28.00-127.00	33 (30.00)	PENTACHLOROPHENOL	
SL-183-SA5DN-SB-4.0-5.0MS SL-183-SA5DN-SB-4.0-5.0MSD (SL-183-SA5DN-SB-4.0-5.0)	3,5-Dimethylphenol	0	0	70.00-130.00	-	3,5-Dimethylphenol	J(all detects) R(all non-detects)
SL-183-SA5DN-SB-4.0-5.0MS SL-183-SA5DN-SB-4.0-5.0MSD (SL-183-SA5DN-SB-4.0-5.0)	BENZIDINE	26	28	35.00-141.00	-	BENZIDINE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: DE211_v2. eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-183-SA5DN-SB-4.0-5.0DUP (DUP21-SA5DN-QC-072811 SL-068-SA6-SB-19.0-20.0 SL-068-SA6-SB-4.0-5.0 SL-070-SA6-SB-19.0-20.0 SL-070-SA6-SB-4.0-5.0 SL-090-SA6-SB-3.0-4.0 SL-172-SA5DN-SB-4.0-5.0 SL-172-SA5DN-SB-9.0-10.0 SL-183-SA5DN-SB-4.0-5.0 SL-183-SA5DN-SB-9.0-10.0)	ANTIMONY	23	20.00	No qual, OK by Difference
	MOLYBDENUM	23	20.00	

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-183-SA5DN-SB-4.0-5.0DUP (DUP21-SA5DN-QC-072811 SL-068-SA6-SB-19.0-20.0 SL-068-SA6-SB-4.0-5.0 SL-070-SA6-SB-19.0-20.0 SL-070-SA6-SB-4.0-5.0 SL-090-SA6-SB-3.0-4.0 SL-172-SA5DN-SB-4.0-5.0 SL-172-SA5DN-SB-9.0-10.0 SL-183-SA5DN-SB-4.0-5.0 SL-183-SA5DN-SB-9.0-10.0)	HEXAVALENT CHROMIUM	70	20.00	No qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: DE211_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
P21426BQ222053A (DUP21 -SA5DN -QC-072811 SL -068-SA6-SB-19.0-20.0 SL -068-SA6-SB-4.0-5.0 SL -070-SA6-SB-19.0-20.0 SL -070-SA6-SB-4.0-5.0 SL -090-SA6-SB-3.0-4.0 SL -172-SA5DN -SB-4.0-5.0 SL -172-SA5DN -SB-9.0-10.0 SL -183-SA5DN -SB-4.0-5.0 SL -183-SA5DN -SB-9.0-10.0)	ANTIMONY	66	-	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
P21408FQ222016 (DUP21 -SA5DN -QC-072811 SL -068-SA6-SB-19.0-20.0 SL -068-SA6-SB-4.0-5.0 SL -070-SA6-SB-19.0-20.0 SL -070-SA6-SB-4.0-5.0 SL -090-SA6-SB-3.0-4.0 SL -172-SA5DN -SB-4.0-5.0 SL -172-SA5DN -SB-9.0-10.0 SL -183-SA5DN -SB-4.0-5.0 SL -183-SA5DN -SB-9.0-10.0)	ALUMINUM IRON MAGNESIUM TITANIUM	146 123 121 177	- - - -	80.00-120.00 80.00-120.00 80.00-120.00 80.00-120.00	- - - -	ALUMINUM IRON MAGNESIUM TITANIUM	No qual, SRM within QC limits

Field Duplicate RPD Report

Lab Reporting Batch ID: DE211 **Laboratory: LL**

EDD Filename: DE211_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-183-SA5DN-SB-4.0-5.0	DUP21-SA5DN-QC-072811			
MOISTURE	10.9	9.8	11		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-183-SA5DN-SB-4.0-5.0	DUP21-SA5DN-QC-072811			
FLUORIDE	6.6	6.9	4	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-183-SA5DN-SB-4.0-5.0	DUP21-SA5DN-QC-072811			
ALUMINUM	33000	32700	1	50.00	No Qualifiers Applied
BORON	5.10	4.64	9	50.00	
CALCIUM	16500	16400	1	50.00	
IRON	32600	33900	4	50.00	
LITHIUM	30.7	31.1	1	50.00	
MAGNESIUM	7770	7840	1	50.00	
MANGANESE	387	381	2	50.00	
PHOSPHORUS	281	283	1	50.00	
POTASSIUM	3800	3830	1	50.00	
SODIUM	144	144	0	50.00	
STRONTIUM	36.1	36.1	0	50.00	
TIN	2.68	2.57	4	50.00	
TITANIUM	1330	1330	0	50.00	
Zirconium	6.14	6.20	1	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-183-SA5DN-SB-4.0-5.0	DUP21-SA5DN-QC-072811			
ANTIMONY	0.167	0.116	36	50.00	No Qualifiers Applied
ARSENIC	8.65	8.25	5	50.00	
BARIUM	134	129	4	50.00	
BERYLLIUM	0.841	0.790	6	50.00	
CADMIUM	0.272	0.250	8	50.00	
CHROMIUM	31.9	30.7	4	50.00	
COBALT	10.3	10.3	0	50.00	
COPPER	15.6	14.9	5	50.00	
LEAD	9.43	9.37	1	50.00	
MOLYBDENUM	0.557	0.499	11	50.00	
NICKEL	23.6	22.2	6	50.00	
SELENIUM	0.171	0.162	5	50.00	
SILVER	0.0438	0.0493	12	50.00	
THALLIUM	0.358	0.342	5	50.00	
VANADIUM	62.0	59.4	4	50.00	
ZINC	70.1	80.1	13	50.00	

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE211 **Laboratory: LL**

EDD Filename: DE211_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-183-SA5DN-SB-4.0-5.0	DUP21-SA5DN-QC-072811			
HEXAVALENT CHROMIUM	0.24	0.27	12	50.00	No Qualifiers Applied

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-183-SA5DN-SB-4.0-5.0	DUP21-SA5DN-QC-072811			
MERCURY	0.0120	0.0095	23	50.00	No Qualifiers Applied

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-183-SA5DN-SB-4.0-5.0	DUP21-SA5DN-QC-072811			
CHRYSENE	1.9 U	1.8	200	50.00	J(all detects) UJ(all non-detects)

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-183-SA5DN-SB-4.0-5.0	DUP21-SA5DN-QC-072811			
PH	8.20	8.14	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE211 **Laboratory: LL**

EDD Filename: DE211_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP21-SA5DN-QC-072811	BORON	J	4.64	5.54	PQL	mg/Kg	J (all detects)
	TIN	J	2.57	11.1	PQL	mg/Kg	
SL-068-SA6-SB-19.0-20.0	BORON	J	0.622	5.37	PQL	mg/Kg	J (all detects)
	TIN	J	1.81	10.7	PQL	mg/Kg	
	Zirconium	J	2.67	5.37	PQL	mg/Kg	
SL-068-SA6-SB-4.0-5.0	BORON	J	1.72	5.38	PQL	mg/Kg	J (all detects)
	TIN	J	2.07	10.8	PQL	mg/Kg	
	Zirconium	J	3.64	5.38	PQL	mg/Kg	
SL-070-SA6-SB-19.0-20.0	TIN	J	2.36	11.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.04	5.77	PQL	mg/Kg	
SL-070-SA6-SB-4.0-5.0	BORON	J	5.09	5.54	PQL	mg/Kg	J (all detects)
	TIN	J	2.04	11.1	PQL	mg/Kg	
	Zirconium	J	5.04	5.54	PQL	mg/Kg	
SL-090-SA6-SB-3.0-4.0	TIN	J	2.42	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.40	5.43	PQL	mg/Kg	
SL-172-SA5DN-SB-4.0-5.0	BORON	J	3.65	5.33	PQL	mg/Kg	J (all detects)
	TIN	J	2.66	10.7	PQL	mg/Kg	
SL-172-SA5DN-SB-9.0-10.0	BORON	J	4.51	5.91	PQL	mg/Kg	J (all detects)
	TIN	J	2.21	11.8	PQL	mg/Kg	
	Zirconium	J	5.58	5.91	PQL	mg/Kg	
SL-183-SA5DN-SB-4.0-5.0	BORON	J	5.10	5.40	PQL	mg/Kg	J (all detects)
	TIN	J	2.68	10.8	PQL	mg/Kg	
SL-183-SA5DN-SB-9.0-10.0	BORON	J	1.18	5.68	PQL	mg/Kg	J (all detects)
	TIN	J	2.63	11.4	PQL	mg/Kg	
	Zirconium	J	5.06	5.68	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP21-SA5DN-QC-072811	ANTIMONY	J	0.116	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.162	0.435	PQL	mg/Kg	
	SILVER	J	0.0493	0.109	PQL	mg/Kg	
SL-068-SA6-SB-19.0-20.0	ANTIMONY	J	0.103	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.110	0.429	PQL	mg/Kg	
	SILVER	J	0.0318	0.107	PQL	mg/Kg	
SL-068-SA6-SB-4.0-5.0	SELENIUM	J	0.0930	0.422	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0198	0.105	PQL	mg/Kg	
SL-070-SA6-SB-19.0-20.0	ANTIMONY	J	0.206	0.229	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.122	0.457	PQL	mg/Kg	
	SILVER	J	0.0354	0.114	PQL	mg/Kg	
SL-070-SA6-SB-4.0-5.0	ANTIMONY	J	0.0824	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.167	0.443	PQL	mg/Kg	
	SILVER	J	0.0215	0.111	PQL	mg/Kg	
SL-090-SA6-SB-3.0-4.0	SILVER	J	0.0223	0.111	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE211 **Laboratory: LL**

EDD Filename: DE211_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-172-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.127	0.220	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.121	0.439	PQL	mg/Kg	
	SILVER	J	0.0572	0.110	PQL	mg/Kg	
SL-172-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.102	0.236	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.110	0.473	PQL	mg/Kg	
	SILVER	J	0.0470	0.118	PQL	mg/Kg	
SL-183-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.167	0.214	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.171	0.428	PQL	mg/Kg	
	SILVER	J	0.0438	0.107	PQL	mg/Kg	
SL-183-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.0991	0.227	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0663	0.114	PQL	mg/Kg	
	SELENIUM	J	0.0798	0.454	PQL	mg/Kg	
	SILVER	J	0.0536	0.114	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP21-SA5DN-QC-072811	HEXAVALENT CHROMIUM	J	0.27	1.1	PQL	mg/Kg	J (all detects)
SL-068-SA6-SB-19.0-20.0	HEXAVALENT CHROMIUM	J	0.27	1.1	PQL	mg/Kg	J (all detects)
SL-068-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.33	1.1	PQL	mg/Kg	J (all detects)
SL-070-SA6-SB-19.0-20.0	HEXAVALENT CHROMIUM	J	0.43	1.2	PQL	mg/Kg	J (all detects)
SL-070-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.25	1.1	PQL	mg/Kg	J (all detects)
SL-090-SA6-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.39	1.1	PQL	mg/Kg	J (all detects)
SL-172-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.43	1.2	PQL	mg/Kg	J (all detects)
SL-172-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.29	1.2	PQL	mg/Kg	J (all detects)
SL-183-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.24	1.1	PQL	mg/Kg	J (all detects)
SL-183-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.24	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP21-SA5DN-QC-072811	MERCURY	J	0.0095	0.107	PQL	mg/Kg	J (all detects)
SL-068-SA6-SB-4.0-5.0	MERCURY	J	0.0366	0.101	PQL	mg/Kg	J (all detects)
SL-070-SA6-SB-4.0-5.0	MERCURY	J	0.0127	0.111	PQL	mg/Kg	J (all detects)
SL-172-SA5DN-SB-4.0-5.0	MERCURY	J	0.0159	0.108	PQL	mg/Kg	J (all detects)
SL-172-SA5DN-SB-9.0-10.0	MERCURY	J	0.0114	0.116	PQL	mg/Kg	J (all detects)
SL-183-SA5DN-SB-4.0-5.0	MERCURY	J	0.0120	0.111	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE211 **Laboratory: LL**

EDD Filename: DE211_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-183-SA5DN-SB-9.0-10.0	MERCURY	J	0.0157	0.107	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-090-SA6-SB-3.0-4.0	EFH (C30-C40)	J	0.66	1.3	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-068-SA6-SB-4.0-5.0	AROCLOR 1254	J	1.6	1.8	PQL	ug/Kg	J (all detects)
SL-172-SA5DN-SB-4.0-5.0	AROCLOR 1248	J	1.1	1.9	PQL	ug/Kg	J (all detects)
SL-172-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	1.2	2.0	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-068-SA6-SB-19.0-20.0	ANTHRACENE	J	29	190	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	75	190	PQL	ug/Kg	
	BENZO(A)PYRENE	J	61	190	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	89	190	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	43	190	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	28	190	PQL	ug/Kg	
	CHRYSENE	J	80	190	PQL	ug/Kg	
	FLUORANTHENE	J	150	190	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	47	190	PQL	ug/Kg	
	PHENANTHRENE	J	80	190	PQL	ug/Kg	
	PYRENE	J	150	190	PQL	ug/Kg	
SL-070-SA6-SB-19.0-20.0	BENZO(A)ANTHRACENE	J	50	200	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	58	200	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	73	200	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	55	200	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	36	200	PQL	ug/Kg	
	CHRYSENE	J	60	200	PQL	ug/Kg	
	FLUORANTHENE	J	59	200	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	37	200	PQL	ug/Kg	
	PYRENE	J	58	200	PQL	ug/Kg	
SL-172-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	28	370	PQL	ug/Kg	J (all detects)
SL-183-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	34	380	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE211 **Laboratory: LL**

EDD Filename: DE211_v2. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-068-SA6-SB-19.0-20.0	ACENAPHTHENE	J	1.6	1.9	PQL	ug/Kg	
	ACENAPHTHYLENE	J	1.8	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	20	PQL	ug/Kg	J (all detects)
	FLUORENE	J	1.2	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	0.98	1.9	PQL	ug/Kg	
SL-068-SA6-SB-4.0-5.0	CHRYSENE	J	0.43	1.8	PQL	ug/Kg	J (all detects)
SL-070-SA6-SB-19.0-20.0	1-METHYLNAPHTHALENE	J	1.6	2.0	PQL	ug/Kg	
	2-METHYLNAPHTHALENE	J	1.8	2.0	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	1.9	2.0	PQL	ug/Kg	
	NAPHTHALENE	J	1.7	2.0	PQL	ug/Kg	
SL-070-SA6-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	0.93	1.9	PQL	ug/Kg	
	BENZO(A)PYRENE	J	0.78	1.9	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.2	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.1	20	PQL	ug/Kg	
	FLUORANTHENE	J	1.2	1.9	PQL	ug/Kg	
	PYRENE	J	1.2	1.9	PQL	ug/Kg	
SL-172-SA5DN-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	0.80	1.9	PQL	ug/Kg	
	BENZO(A)PYRENE	J	0.83	1.9	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.4	1.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	1.7	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.7	1.9	PQL	ug/Kg	
SL-172-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	15	21	PQL	ug/Kg	
	Di-n-butylphthalate	J	8.3	21	PQL	ug/Kg	J (all detects)
	FLUORENE	J	1.8	2.0	PQL	ug/Kg	
SL-183-SA5DN-SB-9.0-10.0	CHRYSENE	J	0.44	1.9	PQL	ug/Kg	J (all detects)

LDC #: 26407I4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10-2H)

SDG #: DE211 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: CL

2nd Reviewer: MG

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	—	
III.	Calibration	—	
IV.	Blanks	A	No Quals
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	MS/D
VII.	Duplicate Sample Analysis	SW	Dup
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	—	

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

Validated Samples:

1	SL-172-SA5DN-SB-4.0-5.0	11	SL-183-SA5DN-SB-4.0-5.0MS	21		31	
2	SL-172-SA5DN-SB-9.0-10.0	12	SL-183-SA5DN-SB-4.0-5.0MSD	22		32	
3	SL-183-SA5DN-SB-4.0-5.0	13	SL-183-SA5DN-SB-4.0-5.0DUP	23		33	
4	SL-183-SA5DN-SB-9.0-10.0	14		24		34	
5	DUP21-SA5DN-QC-072811	15		25		35	
6	SL-068-SA6-SB-4.0-5.0	16		26		36	
7	SL-068-SA6-SB-19.0-20.0	17		27		37	
8	SL-070-SA6-SB-4.0-5.0	18		28		38	
9	SL-070-SA6-SB-19.0-20.0	19		29		39	
10	SL-090-SA6-SB-3.0-4.0	20		30		40	

Notes:

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A (MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE211
Matrix: SOIL Level (low/med): LOW

>4X

Background Lab Sample ID: 6359559BKG Matrix Spike Lab Sample ID: 6359560MS Matrix Spike Duplicate Lab Sample ID: 6359561MSD
% Solids for Sample: 89.1
Batch Id(s): P21408F, P21426B, P21411C

Sb: J/UJ/A (PS=97%

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		32974.9309		38647.9590		38361.8562		213.7780	222.2444	MG/KG	2654		2424		1			20	P
Antimony	121	0.1675	B	0.5623		0.5301		1.3335	1.2950	MG/KG	30	N	28	N	6		75 - 125	20	MS
Arsenic	75	8.6452		10.6277		10.4463		2.2224	2.1583	MG/KG	89		83		2		75 - 125		MS
Barium	137	133.7181		148.0593		143.0761		11.1122	10.7917	MG/KG	129		87		3			20	MS
Beryllium	9	0.8406		1.5653		1.5464		0.8890	0.8633	MG/KG	82		82		1		75 - 125	20	MS
Boron		5.0958	B	206.0243		212.9724		213.7780	222.2444	MG/KG	94		94		3		84 - 115	20	P
Cadmium	111	0.2719		1.4157		1.3423		1.1112	1.0792	MG/KG	103		99		5		75 - 125	20	MS
Calcium		16534.4924		15735.4412		16367.9179		427.5560	444.4889	MG/KG	-187		-37		4			20	P
Chromium	52	31.8529		41.9153		40.9005		11.1122	10.7917	MG/KG	91		84		2		75 - 125	20	MS
Cobalt	59	10.2613		64.1397		61.6421		55.5611	53.9584	MG/KG	97		95		4		75 - 125	20	MS
Copper	63	15.5673		26.1804		25.4036		11.1122	10.7917	MG/KG	96		91		3		75 - 125	20	MS
Iron		32629.1246		35355.8271		33644.3733		106.8890	111.1222	MG/KG	2551		914		5			20	P
Lead	208	9.4340		13.0435		12.4644		3.3337	3.2375	MG/KG	108		94		5		75 - 125	20	MS
Lithium		30.7315		140.8979		142.2909		106.8890	111.1222	MG/KG	103		100		1		82 - 114	20	P
Magnesium		7774.6968		8580.4628		8427.4216		213.7780	222.2444	MG/KG	377		294		2			20	P
Manganese		387.4439		448.0872		424.8603		53.4445	55.5611	MG/KG	113		67		5			20	P
Mercury		0.0120	B	0.1888		0.1883		0.1781	0.1744	MG/KG	99		101		0		65 - 135	20	CV
Molybdenum	98	0.5571		10.5411		10.5327		11.1122	10.7917	MG/KG	90		92		0		75 - 125	20	MS
Nickel	60	23.5797		34.8479		33.5190		11.1122	10.7917	MG/KG	101		92		4		75 - 125	20	MS
Phosphorus		280.5642		375.0585		379.5557		106.8890	111.1222	MG/KG	88		89		1		75 - 125	20	P
Potassium		3801.7828		5346.4358		5379.9302		1068.8900	1111.2222	MG/KG	145	N	142	N	1		75 - 125	20	P
Selenium	78	0.1709	B	2.2380		2.0886		2.2224	2.1583	MG/KG	93		89		7		75 - 125	20	MS
Silver	107	0.0438	B	10.9233		10.8737		11.1122	10.7917	MG/KG	98		100		0		75 - 125	20	MS
Sodium		143.8520		1171.8080		1192.3703		1068.8900	1111.2222	MG/KG	96		94		2		75 - 125	20	P
Strontium		36.1165		137.2615		139.8162		106.8890	111.1222	MG/KG	95		93		2		75 - 115	20	P
Thallium	203	0.3577		0.8021		0.7401		0.4445	0.4317	MG/KG	100		89		8		75 - 125	20	MS
Tin		2.6850	B	345.3851		351.7218		427.5560	444.4889	MG/KG	80		79	N	2		80 - 110	20	P
Titanium		1329.5778		1598.9493		1610.7255		106.8890	111.1222	MG/KG	252		253		1			20	P
Vanadium	51	61.9956		75.1186		72.1963		11.1122	10.7917	MG/KG	118		95		4			20	MS
Zinc	66	70.0764		81.9193		78.2828		11.1122	10.7917	MG/KG	107		76		5			20	MS
Zirconium		6.1405		103.6973		105.9150		106.8890	111.1222	MG/KG	91		90		2		75 - 125	20	P

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:
N = Matrix Spike OOS, * = Duplicate OOS

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE211
Matrix: SOIL Level (low/med): LOW

< 5xRL

Background Lab Sample ID: 6359559BKG
% Solids for Duplicate: 89.1
Batch ID(s): P21408F, P21426B, P21411C
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6359562DUP
% Solids for Sample: 89.1

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			32974.9309		34227.1405		4		P
Antimony	121		0.1675	B	0.1326	B	23		MS
Arsenic	75		8.6452		8.2789		4		MS
Barium	137		133.7181		137.4750		3		MS
Beryllium	9		0.8406		0.8409		0		MS
Boron			5.0958	B	4.7060	B	8		P
Cadmium	111	0.1	0.2719		0.2577		5		MS
Calcium			16534.4924		18069.6303		9		P
Chromium	52		31.8529		31.9315		0		MS
Cobalt	59		10.2613		10.3365		1		MS
Copper	63		15.5673		15.7391		1		MS
Iron			32629.1246		35460.7683		8		P
Lead	208		9.4340		9.4166		0		MS
Lithium			30.7315		31.9210		4		P
Magnesium			7774.6968		8158.2292		5		P
Manganese			387.4439		415.8760		7		P
Mercury			0.0120	B	0.0115	B	4		CV
Molybdenum	98	0.1	0.5571		0.4426		23	*	MS
Nickel	60		23.5797		23.0409		2		MS
Phosphorus			280.5642		284.2640		1		P
Potassium			3801.7828		3914.2614		3		P
Selenium	78		0.1709	B	0.1814	B	6		MS
Silver	107		0.0438	B	0.0432	B	1		MS
Sodium		107.9	143.8520		149.7916		4		P
Strontium			36.1165		40.2885		11		P
Thallium	203	0.1	0.3577		0.3435		4		MS
Tin			2.6850	B	2.9903	B	11		P
Titanium			1329.5778		1282.2516		4		P
Vanadium	51		61.9956		61.7064		0		MS
Zinc	66		70.0764		70.7731		1		MS
Zirconium		5.4	6.1405		6.6429		8		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.

DE211 2329

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE211
Matrix: SOIL Level (low/med): LOW

5/05

Background Lab Sample ID: 6359559BKG Serial Dilution Lab Sample ID: 6359559L
Batch ID(s): P21408F, P21426B
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		305558.9000		297442.1000		3		P
Antimony	121	0.7835	B	1.8500	U	100		MS
Arsenic	75	40.4400		39.6350		2		MS
Barium	137	625.5000		602.0000		4		MS
Beryllium	9	3.9320		4.4885		14		MS
Boron		47.2200	B	64.3000	B	36		P
Cadmium	111	1.2720		1.1825	B	7		MS
Calcium		153215.2200		157904.7000		3		P
Chromium	52	149.0000		169.7000		14	E	MS
Cobalt	59	48.0000		49.1850		2		MS
Copper	63	72.8200		76.7500		5		MS
Iron		151177.2600		150052.0500		1		P
Lead	208	44.1300		43.6200		1		MS
Lithium		284.7700		276.3000		3		P
Magnesium		72043.4500		74795.9000		4		P
Manganese		3590.2100		3849.0500		7		P
Molybdenum	98	2.6060		2.8775		10		MS
Nickel	60	110.3000		114.2500		4		MS
Phosphorus		2599.8200		2643.9000		2		P
Potassium		35228.8400		34880.3000		1		P
Selenium	78	0.7992	B	1.4500	U	100		MS
Silver	107	0.2047	B	0.3550	U	100		MS
Sodium		1332.9900		1271.4500	B	5		P
Strontium		334.6700		346.7000		4		P
Thallium	203	1.6730		1.9715	B	18		MS
Tin		24.8800	B	21.1000	B	15		P
Titanium		12320.4000		13295.5000		8		P
Vanadium	51	290.0000		323.1500		11	E	MS
Zinc	66	327.8000		346.0000		6		MS
Zirconium		56.9000		100.4500	B	77		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

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

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ
FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

DE211 2331

SAMPLE DELIVERY GROUP

DE212

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-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3050B	6010B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3050B	6020	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3060A	7199	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3550B	8015B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3550B	8015M	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3550B	8082	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3550B	8270C	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3550B	8270C SIM	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	5035	8015M	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	METHOD	300.0	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	METHOD	314.0	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	METHOD	7471A	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	METHOD	8015B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	METHOD	8015M	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3050B	6010B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3050B	6020	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3060A	7199	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3550B	8015B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3550B	8015M	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3550B	8082	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3550B	8270C	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3550B	8270C SIM	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	5035	8015M	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	METHOD	300.0	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	METHOD	314.0	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	METHOD	8015B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	METHOD	8015M	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MSD	6360508	MSD	3050B	6010B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MSD	6360508	MSD	3050B	6020	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MSD	6360508	MSD	3550B	8015B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MSD	6360508	MSD	3550B	8015M	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MSD	6360508	MSD	3550B	8082	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MSD	6360508	MSD	3550B	8270C	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MSD	6360508	MSD	3550B	8270C SIM	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MSD	6360508	MSD	5035	8015M	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MSD	6360508	MSD	METHOD	7471A	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MSD	6360508	MSD	METHOD	8015B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MSD	6360508	MSD	METHOD	8015M	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0DUP	6360509	DUP	3050B	6010B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0DUP	6360509	DUP	3050B	6020	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0DUP	6360509	DUP	3060A	7199	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0DUP	6360509	DUP	METHOD	300.0	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0DUP	6360509	DUP	METHOD	314.0	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0DUP	6360509	DUP	METHOD	7471A	III
29-Jul-2011	DUP10-SA6-QC-072911	6360513	FD	3050B	6010B	III
29-Jul-2011	DUP10-SA6-QC-072911	6360513	FD	3050B	6020	III
29-Jul-2011	DUP10-SA6-QC-072911	6360513	FD	3060A	7199	III
29-Jul-2011	DUP10-SA6-QC-072911	6360513	FD	3550B	8015B	III
29-Jul-2011	DUP10-SA6-QC-072911	6360513	FD	3550B	8015M	III
29-Jul-2011	DUP10-SA6-QC-072911	6360513	FD	3550B	8082	III
29-Jul-2011	DUP10-SA6-QC-072911	6360513	FD	3550B	8270C	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Jul-2011	DUP10-SA6-QC-072911	6360513	FD	3550B	8270C SIM	III
29-Jul-2011	DUP10-SA6-QC-072911	6360513	FD	5035	8015M	III
29-Jul-2011	DUP10-SA6-QC-072911	6360513	FD	METHOD	300.0	III
29-Jul-2011	DUP10-SA6-QC-072911	6360513	FD	METHOD	314.0	III
29-Jul-2011	DUP10-SA6-QC-072911	6360513	FD	METHOD	7471A	III
29-Jul-2011	DUP10-SA6-QC-072911	6360513	FD	METHOD	8015B	III
29-Jul-2011	DUP10-SA6-QC-072911	6360513	FD	METHOD	8015M	III
29-Jul-2011	TB-072911	6360514	TB	5030B	8015M	III
29-Jul-2011	SL-125-SA6-SB-20.0-21.0	6360510	N	3050B	6010B	III
29-Jul-2011	SL-125-SA6-SB-20.0-21.0	6360510	N	3050B	6020	III
29-Jul-2011	SL-125-SA6-SB-20.0-21.0	6360510	N	3060A	7199	III
29-Jul-2011	SL-125-SA6-SB-20.0-21.0	6360510	N	3550B	8015B	III
29-Jul-2011	SL-125-SA6-SB-20.0-21.0	6360510	N	3550B	8015M	III
29-Jul-2011	SL-125-SA6-SB-20.0-21.0	6360510	N	3550B	8082	III
29-Jul-2011	SL-125-SA6-SB-20.0-21.0	6360510	N	3550B	8270C	III
29-Jul-2011	SL-125-SA6-SB-20.0-21.0	6360510	N	3550B	8270C SIM	III
29-Jul-2011	SL-125-SA6-SB-20.0-21.0	6360510	N	5035	8015M	III
29-Jul-2011	SL-125-SA6-SB-20.0-21.0	6360510	N	METHOD	300.0	III
29-Jul-2011	SL-125-SA6-SB-20.0-21.0	6360510	N	METHOD	314.0	III
29-Jul-2011	SL-125-SA6-SB-20.0-21.0	6360510	N	METHOD	7471A	III
29-Jul-2011	SL-125-SA6-SB-20.0-21.0	6360510	N	METHOD	8015B	III
29-Jul-2011	SL-125-SA6-SB-20.0-21.0	6360510	N	METHOD	8015M	III
29-Jul-2011	SL-180-SA5DN-SB-4.0-5.0	6360499	N	3050B	6010B	III
29-Jul-2011	SL-180-SA5DN-SB-4.0-5.0	6360499	N	3050B	6020	III
29-Jul-2011	SL-180-SA5DN-SB-4.0-5.0	6360499	N	3060A	7199	III
29-Jul-2011	SL-180-SA5DN-SB-4.0-5.0	6360499	N	3550B	8082	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Jul-2011	SL-180-SA5DN-SB-4.0-5.0	6360499	N	3550B	8270C	III
29-Jul-2011	SL-180-SA5DN-SB-4.0-5.0	6360499	N	3550B	8270C SIM	III
29-Jul-2011	SL-180-SA5DN-SB-4.0-5.0	6360499	N	METHOD	300.0	III
29-Jul-2011	SL-180-SA5DN-SB-4.0-5.0	6360499	N	METHOD	314.0	III
29-Jul-2011	SL-180-SA5DN-SB-4.0-5.0	6360499	N	METHOD	7471A	III
29-Jul-2011	SL-180-SA5DN-SB-9.0-10.0	6360500	N	3050B	6010B	III
29-Jul-2011	SL-180-SA5DN-SB-9.0-10.0	6360500	N	3050B	6020	III
29-Jul-2011	SL-180-SA5DN-SB-9.0-10.0	6360500	N	3060A	7199	III
29-Jul-2011	SL-180-SA5DN-SB-9.0-10.0	6360500	N	3550B	8082	III
29-Jul-2011	SL-180-SA5DN-SB-9.0-10.0	6360500	N	3550B	8270C	III
29-Jul-2011	SL-180-SA5DN-SB-9.0-10.0	6360500	N	3550B	8270C SIM	III
29-Jul-2011	SL-180-SA5DN-SB-9.0-10.0	6360500	N	METHOD	300.0	III
29-Jul-2011	SL-180-SA5DN-SB-9.0-10.0	6360500	N	METHOD	314.0	III
29-Jul-2011	SL-180-SA5DN-SB-9.0-10.0	6360500	N	METHOD	7471A	III
29-Jul-2011	SL-123-SA6-SB-4.0-5.0	6360504	N	3050B	6010B	III
29-Jul-2011	SL-123-SA6-SB-4.0-5.0	6360504	N	3050B	6020	III
29-Jul-2011	SL-123-SA6-SB-4.0-5.0	6360504	N	3060A	7199	III
29-Jul-2011	SL-123-SA6-SB-4.0-5.0	6360504	N	3550B	8015B	III
29-Jul-2011	SL-123-SA6-SB-4.0-5.0	6360504	N	3550B	8015M	III
29-Jul-2011	SL-123-SA6-SB-4.0-5.0	6360504	N	3550B	8082	III
29-Jul-2011	SL-123-SA6-SB-4.0-5.0	6360504	N	3550B	8270C	III
29-Jul-2011	SL-123-SA6-SB-4.0-5.0	6360504	N	3550B	8270C SIM	III
29-Jul-2011	SL-123-SA6-SB-4.0-5.0	6360504	N	5035	8015M	III
29-Jul-2011	SL-123-SA6-SB-4.0-5.0	6360504	N	METHOD	300.0	III
29-Jul-2011	SL-123-SA6-SB-4.0-5.0	6360504	N	METHOD	314.0	III
29-Jul-2011	SL-123-SA6-SB-4.0-5.0	6360504	N	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Jul-2011	SL-123-SA6-SB-4.0-5.0	6360504	N	METHOD	8015B	III
29-Jul-2011	SL-123-SA6-SB-4.0-5.0	6360504	N	METHOD	8015M	III
29-Jul-2011	SL-123-SA6-SB-7.0-8.0	6360505	N	3050B	6010B	III
29-Jul-2011	SL-123-SA6-SB-7.0-8.0	6360505	N	3050B	6020	III
29-Jul-2011	SL-123-SA6-SB-7.0-8.0	6360505	N	3060A	7199	III
29-Jul-2011	SL-123-SA6-SB-7.0-8.0	6360505	N	3550B	8015B	III
29-Jul-2011	SL-123-SA6-SB-7.0-8.0	6360505	N	3550B	8015M	III
29-Jul-2011	SL-123-SA6-SB-7.0-8.0	6360505	N	3550B	8082	III
29-Jul-2011	SL-123-SA6-SB-7.0-8.0	6360505	N	3550B	8270C	III
29-Jul-2011	SL-123-SA6-SB-7.0-8.0	6360505	N	3550B	8270C SIM	III
29-Jul-2011	SL-123-SA6-SB-7.0-8.0	6360505	N	5035	8015M	III
29-Jul-2011	SL-123-SA6-SB-7.0-8.0	6360505	N	METHOD	300.0	III
29-Jul-2011	SL-123-SA6-SB-7.0-8.0	6360505	N	METHOD	314.0	III
29-Jul-2011	SL-123-SA6-SB-7.0-8.0	6360505	N	METHOD	7471A	III
29-Jul-2011	SL-123-SA6-SB-7.0-8.0	6360505	N	METHOD	8015B	III
29-Jul-2011	SL-123-SA6-SB-7.0-8.0	6360505	N	METHOD	8015M	III
29-Jul-2011	SL-126-SA6-SB-4.0-5.0	6360511	N	3050B	6010B	III
29-Jul-2011	SL-126-SA6-SB-4.0-5.0	6360511	N	3050B	6020	III
29-Jul-2011	SL-126-SA6-SB-4.0-5.0	6360511	N	3060A	7199	III
29-Jul-2011	SL-126-SA6-SB-4.0-5.0	6360511	N	3550B	8015B	III
29-Jul-2011	SL-126-SA6-SB-4.0-5.0	6360511	N	3550B	8015M	III
29-Jul-2011	SL-126-SA6-SB-4.0-5.0	6360511	N	3550B	8082	III
29-Jul-2011	SL-126-SA6-SB-4.0-5.0	6360511	N	3550B	8270C	III
29-Jul-2011	SL-126-SA6-SB-4.0-5.0	6360511	N	3550B	8270C SIM	III
29-Jul-2011	SL-126-SA6-SB-4.0-5.0	6360511	N	5035	8015M	III
29-Jul-2011	SL-126-SA6-SB-4.0-5.0	6360511	N	METHOD	300.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Jul-2011	SL-126-SA6-SB-4.0-5.0	6360511	N	METHOD	314.0	III
29-Jul-2011	SL-126-SA6-SB-4.0-5.0	6360511	N	METHOD	7471A	III
29-Jul-2011	SL-126-SA6-SB-4.0-5.0	6360511	N	METHOD	8015B	III
29-Jul-2011	SL-126-SA6-SB-4.0-5.0	6360511	N	METHOD	8015M	III
29-Jul-2011	SL-126-SA6-SB-9.0-10.0	6360512	N	3050B	6010B	III
29-Jul-2011	SL-126-SA6-SB-9.0-10.0	6360512	N	3050B	6020	III
29-Jul-2011	SL-126-SA6-SB-9.0-10.0	6360512	N	3060A	7199	III
29-Jul-2011	SL-126-SA6-SB-9.0-10.0	6360512	N	3550B	8015B	III
29-Jul-2011	SL-126-SA6-SB-9.0-10.0	6360512	N	3550B	8015M	III
29-Jul-2011	SL-126-SA6-SB-9.0-10.0	6360512	N	3550B	8082	III
29-Jul-2011	SL-126-SA6-SB-9.0-10.0	6360512	N	3550B	8270C	III
29-Jul-2011	SL-126-SA6-SB-9.0-10.0	6360512	N	3550B	8270C SIM	III
29-Jul-2011	SL-126-SA6-SB-9.0-10.0	6360512	N	5035	8015M	III
29-Jul-2011	SL-126-SA6-SB-9.0-10.0	6360512	N	METHOD	300.0	III
29-Jul-2011	SL-126-SA6-SB-9.0-10.0	6360512	N	METHOD	314.0	III
29-Jul-2011	SL-126-SA6-SB-9.0-10.0	6360512	N	METHOD	7471A	III
29-Jul-2011	SL-126-SA6-SB-9.0-10.0	6360512	N	METHOD	8015B	III
29-Jul-2011	SL-126-SA6-SB-9.0-10.0	6360512	N	METHOD	8015M	III
29-Jul-2011	SL-126-SA6-SB-9.0-10.0DUP	P360512D270509B	DUP	METHOD	314.0	III
29-Jul-2011	SL-126-SA6-SB-9.0-10.0DUP	P360512D271924B	DUP	METHOD	300.0	III
29-Jul-2011	SL-126-SA6-SB-9.0-10.0MS	P360512R270555B	MS	METHOD	314.0	III
29-Jul-2011	SL-126-SA6-SB-9.0-10.0MS	P360512R272007B	MS	METHOD	300.0	III
29-Jul-2011	SL-122-SA6-SB-0.0-0.5	6360503	N	3050B	6010B	III
29-Jul-2011	SL-122-SA6-SB-0.0-0.5	6360503	N	3050B	6020	III
29-Jul-2011	SL-122-SA6-SB-0.0-0.5	6360503	N	3060A	7199	III
29-Jul-2011	SL-122-SA6-SB-0.0-0.5	6360503	N	3550B	8015B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Jul-2011	SL-122-SA6-SB-0.0-0.5	6360503	N	3550B	8015M	III
29-Jul-2011	SL-122-SA6-SB-0.0-0.5	6360503	N	3550B	8082	III
29-Jul-2011	SL-122-SA6-SB-0.0-0.5	6360503	N	3550B	8270C	III
29-Jul-2011	SL-122-SA6-SB-0.0-0.5	6360503	N	3550B	8270C SIM	III
29-Jul-2011	SL-122-SA6-SB-0.0-0.5	6360503	N	5035	8015M	III
29-Jul-2011	SL-122-SA6-SB-0.0-0.5	6360503	N	METHOD	300.0	III
29-Jul-2011	SL-122-SA6-SB-0.0-0.5	6360503	N	METHOD	314.0	III
29-Jul-2011	SL-122-SA6-SB-0.0-0.5	6360503	N	METHOD	7471A	III
29-Jul-2011	SL-122-SA6-SB-0.0-0.5	6360503	N	METHOD	8015B	III
29-Jul-2011	SL-122-SA6-SB-0.0-0.5	6360503	N	METHOD	8015M	III
29-Jul-2011	SL-174-SA5DN-SB-4.0-5.0	6360501	N	3050B	6010B	III
29-Jul-2011	SL-174-SA5DN-SB-4.0-5.0	6360501	N	3050B	6020	III
29-Jul-2011	SL-174-SA5DN-SB-4.0-5.0	6360501	N	3060A	7199	III
29-Jul-2011	SL-174-SA5DN-SB-4.0-5.0	6360501	N	3550B	8082	III
29-Jul-2011	SL-174-SA5DN-SB-4.0-5.0	6360501	N	3550B	8270C	III
29-Jul-2011	SL-174-SA5DN-SB-4.0-5.0	6360501	N	3550B	8270C SIM	III
29-Jul-2011	SL-174-SA5DN-SB-4.0-5.0	6360501	N	METHOD	300.0	III
29-Jul-2011	SL-174-SA5DN-SB-4.0-5.0	6360501	N	METHOD	314.0	III
29-Jul-2011	SL-174-SA5DN-SB-4.0-5.0	6360501	N	METHOD	7471A	III
29-Jul-2011	SL-174-SA5DN-SB-9.0-10.0	6360502	N	3050B	6010B	III
29-Jul-2011	SL-174-SA5DN-SB-9.0-10.0	6360502	N	3050B	6020	III
29-Jul-2011	SL-174-SA5DN-SB-9.0-10.0	6360502	N	3060A	7199	III
29-Jul-2011	SL-174-SA5DN-SB-9.0-10.0	6360502	N	3550B	8082	III
29-Jul-2011	SL-174-SA5DN-SB-9.0-10.0	6360502	N	3550B	8270C	III
29-Jul-2011	SL-174-SA5DN-SB-9.0-10.0	6360502	N	3550B	8270C SIM	III
29-Jul-2011	SL-174-SA5DN-SB-9.0-10.0	6360502	N	METHOD	300.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Jul-2011	SL-174-SA5DN-SB-9.0-10.0	6360502	N	METHOD	314.0	III
29-Jul-2011	SL-174-SA5DN-SB-9.0-10.0	6360502	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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE212

Laboratory: LL

EDD Filename: DE212_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: DUP10-SA6-QC-072911 **Collected: 7/29/2011 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	0.92	U	0.92	MDL	1.2	PQL	mg/Kg	UJ	Q, FD

Sample ID: SL-125-SA6-SB-4.0-5.0 **Collected: 7/29/2011 7:55:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.9		0.88	MDL	1.1	PQL	mg/Kg	J	FD

Sample ID: SL-126-SA6-SB-9.0-10.0 **Collected: 7/29/2011 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	5.8		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: DUP10-SA6-QC-072911 **Collected: 7/29/2011 8:00:00** **Analysis Type: REA** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	10900		2.76	MDL	22.1	PQL	mg/Kg	J	E, FD

Sample ID: DUP10-SA6-QC-072911 **Collected: 7/29/2011 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
ALUMINUM	12400		6.67	MDL	22.1	PQL	mg/Kg	J	E
BORON	1.30	J	0.397	MDL	5.52	PQL	mg/Kg	J	Z, FD
IRON	26700		2.88	MDL	22.1	PQL	mg/Kg	J	E
MAGNESIUM	4650		0.485	MDL	11.0	PQL	mg/Kg	J	E
MANGANESE	251		0.0397	MDL	0.552	PQL	mg/Kg	J	E
PHOSPHORUS	479		0.386	MDL	11.0	PQL	mg/Kg	J	E
POTASSIUM	2310		12.5	MDL	55.2	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	34.7		0.0276	MDL	0.552	PQL	mg/Kg	J	E
TIN	2.95	J	0.353	MDL	11.0	PQL	mg/Kg	U	B
TITANIUM	1000		0.0783	MDL	1.10	PQL	mg/Kg	J	E
Zirconium	4.91	J	0.508	MDL	5.52	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: DE212 **Laboratory: LL**

EDD Filename: DE212_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-122-SA6-SB-0.0-0.5 ***Collected:*** 7/29/2011 2:30:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	12700		2.47	MDL	19.7	PQL	mg/Kg	J	E

Sample ID: SL-122-SA6-SB-0.0-0.5 ***Collected:*** 7/29/2011 2:30:00 ***Analysis Type:*** REA2 ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	46000		12.9	MDL	98.7	PQL	mg/Kg	J	E

Sample ID: SL-122-SA6-SB-0.0-0.5 ***Collected:*** 7/29/2011 2:30:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	11300		5.97	MDL	19.7	PQL	mg/Kg	J	E
MAGNESIUM	6240		0.434	MDL	9.87	PQL	mg/Kg	J	E
MANGANESE	293		0.0355	MDL	0.493	PQL	mg/Kg	J	E
PHOSPHORUS	499		0.345	MDL	9.87	PQL	mg/Kg	J	E
POTASSIUM	2580		11.2	MDL	49.3	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	32.1		0.0247	MDL	0.493	PQL	mg/Kg	J	E
TIN	3.22	J	0.316	MDL	9.87	PQL	mg/Kg	U	B
TITANIUM	1040		0.0701	MDL	0.987	PQL	mg/Kg	J	E
Zirconium	6.52		0.454	MDL	4.93	PQL	mg/Kg	U	B

Sample ID: SL-123-SA6-SB-4.0-5.0 ***Collected:*** 7/29/2011 9:40:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4340		2.63	MDL	21.0	PQL	mg/Kg	J	E

Sample ID: SL-123-SA6-SB-4.0-5.0 ***Collected:*** 7/29/2011 9:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15800		6.36	MDL	21.0	PQL	mg/Kg	J	E
BORON	2.18	J	0.379	MDL	5.26	PQL	mg/Kg	J	Z
IRON	18000		2.75	MDL	21.0	PQL	mg/Kg	J	E
MAGNESIUM	4520		0.463	MDL	10.5	PQL	mg/Kg	J	E
MANGANESE	123		0.0379	MDL	0.526	PQL	mg/Kg	J	E
PHOSPHORUS	316		0.368	MDL	10.5	PQL	mg/Kg	J	E
POTASSIUM	1980		11.9	MDL	52.6	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

Data Qualifier Summary

Lab Reporting Batch ID: DE212

Laboratory: LL

EDD Filename: DE212_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-123-SA6-SB-4.0-5.0** ***Collected:*** **7/29/2011 9:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
STRONTIUM	28.6		0.0263	MDL	0.526	PQL	mg/Kg	J	E
TIN	2.52	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
TITANIUM	347		0.0747	MDL	1.05	PQL	mg/Kg	J	E
Zirconium	3.49	J	0.484	MDL	5.26	PQL	mg/Kg	U	B

Sample ID: **SL-123-SA6-SB-7.0-8.0** ***Collected:*** **7/29/2011 9:50:00** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	13400		2.69	MDL	21.5	PQL	mg/Kg	J	E

Sample ID: **SL-123-SA6-SB-7.0-8.0** ***Collected:*** **7/29/2011 9:50:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	11800		6.52	MDL	21.5	PQL	mg/Kg	J	E
BORON	1.44	J	0.388	MDL	5.39	PQL	mg/Kg	J	Z
IRON	27400		2.81	MDL	21.5	PQL	mg/Kg	J	E
MAGNESIUM	4610		0.474	MDL	10.8	PQL	mg/Kg	J	E
MANGANESE	255		0.0388	MDL	0.539	PQL	mg/Kg	J	E
PHOSPHORUS	532		0.377	MDL	10.8	PQL	mg/Kg	J	E
POTASSIUM	2250		12.2	MDL	53.9	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	38.9		0.0269	MDL	0.539	PQL	mg/Kg	J	E
TIN	2.88	J	0.345	MDL	10.8	PQL	mg/Kg	U	B
TITANIUM	963		0.0765	MDL	1.08	PQL	mg/Kg	J	E
Zirconium	4.70	J	0.496	MDL	5.39	PQL	mg/Kg	U	B

Sample ID: **SL-125-SA6-SB-20.0-21.0** ***Collected:*** **7/29/2011 8:15:00** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	5510		2.85	MDL	22.8	PQL	mg/Kg	J	E

Sample ID: **SL-125-SA6-SB-20.0-21.0** ***Collected:*** **7/29/2011 8:15:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	17200		6.89	MDL	22.8	PQL	mg/Kg	J	E
BORON	1.81	J	0.410	MDL	5.70	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: DE212 **Laboratory: LL**

EDD Filename: DE212_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-125-SA6-SB-20.0-21.0** ***Collected:*** **7/29/2011 8:15:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	29200		2.97	MDL	22.8	PQL	mg/Kg	J	E
MAGNESIUM	4960		0.501	MDL	11.4	PQL	mg/Kg	J	E
MANGANESE	320		0.0410	MDL	0.570	PQL	mg/Kg	J	E
PHOSPHORUS	336		0.399	MDL	11.4	PQL	mg/Kg	J	E
POTASSIUM	2450		12.9	MDL	57.0	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	27.5		0.0285	MDL	0.570	PQL	mg/Kg	J	E
TIN	3.18	J	0.365	MDL	11.4	PQL	mg/Kg	U	B
TITANIUM	1140		0.0809	MDL	1.14	PQL	mg/Kg	J	E
Zirconium	5.77		0.524	MDL	5.70	PQL	mg/Kg	U	B

Sample ID: **SL-125-SA6-SB-4.0-5.0** ***Collected:*** **7/29/2011 7:55:00** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	26400		2.71	MDL	21.7	PQL	mg/Kg	J	E, FD

Sample ID: **SL-125-SA6-SB-4.0-5.0** ***Collected:*** **7/29/2011 7:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	17500		6.55	MDL	21.7	PQL	mg/Kg	J	E
BORON	5.81		0.390	MDL	5.42	PQL	mg/Kg	J	FD
IRON	23800		2.83	MDL	21.7	PQL	mg/Kg	J	E
MAGNESIUM	5990		0.477	MDL	10.8	PQL	mg/Kg	J	E
MANGANESE	272		0.0390	MDL	0.542	PQL	mg/Kg	J	E
PHOSPHORUS	527		0.379	MDL	10.8	PQL	mg/Kg	J	E
POTASSIUM	3610		12.2	MDL	54.2	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	58.0		0.0271	MDL	0.542	PQL	mg/Kg	J	E
TIN	2.96	J	0.347	MDL	10.8	PQL	mg/Kg	U	B
TITANIUM	1130		0.0769	MDL	1.08	PQL	mg/Kg	J	E
Zirconium	5.55		0.498	MDL	5.42	PQL	mg/Kg	U	B

Sample ID: **SL-126-SA6-SB-4.0-5.0** ***Collected:*** **7/29/2011 11:35:00** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1660		2.64	MDL	21.1	PQL	mg/Kg	J	E
SODIUM	80.2	J	6.27	MDL	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

Data Qualifier Summary

Lab Reporting Batch ID: DE212 **Laboratory: LL**

EDD Filename: DE212_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-126-SA6-SB-4.0-5.0** ***Collected:*** **7/29/2011 11:35:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	14400		6.38	MDL	21.1	PQL	mg/Kg	J	E
BORON	1.43	J	0.380	MDL	5.27	PQL	mg/Kg	J	Z
IRON	15400		2.75	MDL	21.1	PQL	mg/Kg	J	E
MAGNESIUM	2870		0.464	MDL	10.5	PQL	mg/Kg	J	E
MANGANESE	133		0.0380	MDL	0.527	PQL	mg/Kg	J	E
PHOSPHORUS	77.8		0.369	MDL	10.5	PQL	mg/Kg	J	E
POTASSIUM	1170		11.9	MDL	52.7	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	14.9		0.0264	MDL	0.527	PQL	mg/Kg	J	E
TIN	2.86	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
TITANIUM	880		0.0749	MDL	1.05	PQL	mg/Kg	J	E
Zirconium	3.66	J	0.485	MDL	5.27	PQL	mg/Kg	U	B

Sample ID: **SL-126-SA6-SB-9.0-10.0** ***Collected:*** **7/29/2011 11:45:00** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1160		2.74	MDL	21.9	PQL	mg/Kg	J	E

Sample ID: **SL-126-SA6-SB-9.0-10.0** ***Collected:*** **7/29/2011 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
ALUMINUM	15400		6.63	MDL	21.9	PQL	mg/Kg	J	E
BORON	1.98	J	0.394	MDL	5.48	PQL	mg/Kg	J	Z
IRON	17600		2.86	MDL	21.9	PQL	mg/Kg	J	E
MAGNESIUM	3870		0.482	MDL	11.0	PQL	mg/Kg	J	E
MANGANESE	114		0.0394	MDL	0.548	PQL	mg/Kg	J	E
PHOSPHORUS	59.5		0.383	MDL	11.0	PQL	mg/Kg	J	E
POTASSIUM	1460		12.4	MDL	54.8	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	10.5		0.0274	MDL	0.548	PQL	mg/Kg	J	E
TIN	3.11	J	0.350	MDL	11.0	PQL	mg/Kg	U	B
TITANIUM	997		0.0778	MDL	1.10	PQL	mg/Kg	J	E
Zirconium	3.36	J	0.504	MDL	5.48	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: DE212 **Laboratory: LL**

EDD Filename: DE212_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-174-SA5DN-SB-4.0-5.0** ***Collected:*** **7/29/2011 2:49:00** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	24300		2.83	MDL	22.6	PQL	mg/Kg	J	E

Sample ID: **SL-174-SA5DN-SB-4.0-5.0** ***Collected:*** **7/29/2011 2:49:00** ***Analysis Type:*** **REA2** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	29400		14.8	MDL	113	PQL	mg/Kg	J	E

Sample ID: **SL-174-SA5DN-SB-4.0-5.0** ***Collected:*** **7/29/2011 2:49:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	26900		6.85	MDL	22.6	PQL	mg/Kg	J	E
MAGNESIUM	6520		0.498	MDL	11.3	PQL	mg/Kg	J	E
MANGANESE	398		0.0407	MDL	0.566	PQL	mg/Kg	J	E
PHOSPHORUS	293		0.396	MDL	11.3	PQL	mg/Kg	J	E
POTASSIUM	3570		12.8	MDL	56.6	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	44.6		0.0283	MDL	0.566	PQL	mg/Kg	J	E
TIN	3.41	J	0.362	MDL	11.3	PQL	mg/Kg	U	B
TITANIUM	1410		0.0803	MDL	1.13	PQL	mg/Kg	J	E

Sample ID: **SL-174-SA5DN-SB-9.0-10.0** ***Collected:*** **7/29/2011 2:51:00** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	7310		2.77	MDL	22.1	PQL	mg/Kg	J	E

Sample ID: **SL-174-SA5DN-SB-9.0-10.0** ***Collected:*** **7/29/2011 2:51:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	29000		6.69	MDL	22.1	PQL	mg/Kg	J	E
BORON	4.55	J	0.398	MDL	5.53	PQL	mg/Kg	J	Z
IRON	29800		2.89	MDL	22.1	PQL	mg/Kg	J	E
MAGNESIUM	5780		0.487	MDL	11.1	PQL	mg/Kg	J	E
MANGANESE	553		0.0398	MDL	0.553	PQL	mg/Kg	J	E
PHOSPHORUS	209		0.387	MDL	11.1	PQL	mg/Kg	J	E
POTASSIUM	2550		12.5	MDL	55.3	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	33.3		0.0277	MDL	0.553	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: DE212 **Laboratory: LL**

EDD Filename: DE212_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-174-SA5DN-SB-9.0-10.0** ***Collected:*** **7/29/2011 2:51:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.43	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
TITANIUM	1290		0.0786	MDL	1.11	PQL	mg/Kg	J	E
Zirconium	6.72		0.509	MDL	5.53	PQL	mg/Kg	U	B

Sample ID: **SL-180-SA5DN-SB-4.0-5.0** ***Collected:*** **7/29/2011 9:10:00** ***Analysis Type:*** **REA** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	122000		13.7	MDL	110	PQL	mg/Kg	J	E

Sample ID: **SL-180-SA5DN-SB-4.0-5.0** ***Collected:*** **7/29/2011 9:10:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	20900		6.63	MDL	21.9	PQL	mg/Kg	J	E
IRON	22500		2.86	MDL	21.9	PQL	mg/Kg	J	E
MAGNESIUM	6240		0.482	MDL	11.0	PQL	mg/Kg	J	E
MANGANESE	294		0.0395	MDL	0.548	PQL	mg/Kg	J	E
PHOSPHORUS	358		0.384	MDL	11.0	PQL	mg/Kg	J	E
POTASSIUM	2870		12.4	MDL	54.8	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	147		0.0274	MDL	0.548	PQL	mg/Kg	J	E
TIN	3.05	J	0.351	MDL	11.0	PQL	mg/Kg	U	B
TITANIUM	1070		0.0778	MDL	1.10	PQL	mg/Kg	J	E
Zirconium	6.75		0.504	MDL	5.48	PQL	mg/Kg	U	B

Sample ID: **SL-180-SA5DN-SB-9.0-10.0** ***Collected:*** **7/29/2011 9:12:00** ***Analysis Type:*** **REA2** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	66100		14.4	MDL	115	PQL	mg/Kg	J	E

Sample ID: **SL-180-SA5DN-SB-9.0-10.0** ***Collected:*** **7/29/2011 9:12:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	24500		6.97	MDL	23.0	PQL	mg/Kg	J	E
IRON	26300		3.01	MDL	23.0	PQL	mg/Kg	J	E
MAGNESIUM	6780		0.507	MDL	11.5	PQL	mg/Kg	J	E
MANGANESE	335		0.0415	MDL	0.576	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: DE212

Laboratory: LL

EDD Filename: DE212_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-180-SA5DN-SB-9.0-10.0 ***Collected:*** 7/29/2011 9:12:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	408		0.403	MDL	11.5	PQL	mg/Kg	J	E
POTASSIUM	3270		13.0	MDL	57.6	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	104		0.0288	MDL	0.576	PQL	mg/Kg	J	E
TIN	3.23	J	0.368	MDL	11.5	PQL	mg/Kg	U	B
TITANIUM	1350		0.0818	MDL	1.15	PQL	mg/Kg	J	E
Zirconium	6.66		0.530	MDL	5.76	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP10-SA6-QC-072911 ***Collected:*** 7/29/2011 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	0.117	J	0.0634	MDL	0.437	PQL	mg/Kg	J	Z

Sample ID: DUP10-SA6-QC-072911 ***Collected:*** 7/29/2011 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	2.05		0.0546	MDL	0.109	PQL	mg/Kg	J	FD

Sample ID: DUP10-SA6-QC-072911 ***Collected:*** 7/29/2011 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	0.110	J	0.0809	MDL	0.219	PQL	mg/Kg	J	Z, Q
ARSENIC	9.88		0.0874	MDL	0.437	PQL	mg/Kg	J	Q, FD
CADMIUM	0.216		0.0481	MDL	0.109	PQL	mg/Kg	J	E
CHROMIUM	16.1		0.131	MDL	0.437	PQL	mg/Kg	J	Q, E, Q, A
COBALT	13.9		0.0219	MDL	0.109	PQL	mg/Kg	J	FD
COPPER	22.1		0.0874	MDL	0.437	PQL	mg/Kg	J	FD
LEAD	10.2		0.0111	MDL	0.219	PQL	mg/Kg	J	Q, E
NICKEL	9.96		0.109	MDL	0.437	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0386	J	0.0155	MDL	0.109	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: DE212 **Laboratory: LL**

EDD Filename: DE212_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-122-SA6-SB-0.0-0.5 **Collected: 7/29/2011 2:30:00** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0903	J	0.0578	MDL	0.399	PQL	mg/Kg	J	Z

Sample ID: SL-122-SA6-SB-0.0-0.5 **Collected: 7/29/2011 2:30:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.161	J	0.0737	MDL	0.199	PQL	mg/Kg	J	Z, Q
ARSENIC	14.0		0.0797	MDL	0.399	PQL	mg/Kg	J	Q
CADMIUM	0.103		0.0438	MDL	0.0997	PQL	mg/Kg	J	E
CHROMIUM	18.0		0.120	MDL	0.399	PQL	mg/Kg	J	Q, E, Q, A
LEAD	6.79		0.0102	MDL	0.199	PQL	mg/Kg	J	Q, E
NICKEL	14.0		0.0997	MDL	0.399	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0322	J	0.0142	MDL	0.0997	PQL	mg/Kg	J	Z

Sample ID: SL-123-SA6-SB-4.0-5.0 **Collected: 7/29/2011 9:40:00** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.166	J	0.0628	MDL	0.433	PQL	mg/Kg	J	Z

Sample ID: SL-123-SA6-SB-4.0-5.0 **Collected: 7/29/2011 9:40:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0849	J	0.0802	MDL	0.217	PQL	mg/Kg	J	Z, Q
ARSENIC	3.75		0.0867	MDL	0.433	PQL	mg/Kg	J	Q
CADMIUM	0.0839	J	0.0477	MDL	0.108	PQL	mg/Kg	J	Z, E
CHROMIUM	11.6		0.130	MDL	0.433	PQL	mg/Kg	J	Q, E, Q, A
LEAD	7.31		0.0110	MDL	0.217	PQL	mg/Kg	J	Q, E
NICKEL	8.21		0.108	MDL	0.433	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0304	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-123-SA6-SB-7.0-8.0 **Collected: 7/29/2011 9:50:00** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0999	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: DE212 **Laboratory: LL**

EDD Filename: DE212_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-123-SA6-SB-7.0-8.0 ***Collected:*** 7/29/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.318		0.0782	MDL	0.211	PQL	mg/Kg	J	Q
ARSENIC	10.0		0.0845	MDL	0.423	PQL	mg/Kg	J	Q
CADMIUM	1.12		0.0465	MDL	0.106	PQL	mg/Kg	J	E
CHROMIUM	13.5		0.127	MDL	0.423	PQL	mg/Kg	J	Q, E, Q, A
LEAD	11.1		0.0108	MDL	0.211	PQL	mg/Kg	J	Q, E
NICKEL	15.1		0.106	MDL	0.423	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0289	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-125-SA6-SB-20.0-21.0 ***Collected:*** 7/29/2011 8:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0843	U	0.0843	MDL	0.228	PQL	mg/Kg	UJ	Q
ARSENIC	5.71		0.0911	MDL	0.456	PQL	mg/Kg	J	Q
CADMIUM	0.125		0.0501	MDL	0.114	PQL	mg/Kg	J	E
CHROMIUM	16.7		0.137	MDL	0.456	PQL	mg/Kg	J	Q, E, Q, A
LEAD	6.23		0.0116	MDL	0.228	PQL	mg/Kg	J	Q, E
NICKEL	12.2		0.114	MDL	0.456	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0420	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z

Sample ID: SL-125-SA6-SB-4.0-5.0 ***Collected:*** 7/29/2011 7:55:00 ***Analysis Type:*** REA ***Dilution:*** 2

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

Sample ID: SL-125-SA6-SB-4.0-5.0 ***Collected:*** 7/29/2011 7:55:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.346		0.0531	MDL	0.106	PQL	mg/Kg	J	FD

Sample ID: SL-125-SA6-SB-4.0-5.0 ***Collected:*** 7/29/2011 7:55:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.129	J	0.0786	MDL	0.212	PQL	mg/Kg	J	Z, Q
ARSENIC	4.45		0.0850	MDL	0.425	PQL	mg/Kg	J	Q, FD
CADMIUM	0.202		0.0467	MDL	0.106	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: DE212

Laboratory: LL

EDD Filename: DE212_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-125-SA6-SB-4.0-5.0 **Collected: 7/29/2011 7:55:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	21.2		0.127	MDL	0.425	PQL	mg/Kg	J	Q, E, Q, A
COBALT	7.17		0.0212	MDL	0.106	PQL	mg/Kg	J	FD
COPPER	11.1		0.0850	MDL	0.425	PQL	mg/Kg	J	FD
LEAD	6.78		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, E
NICKEL	13.7		0.106	MDL	0.425	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0238	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-126-SA6-SB-4.0-5.0 **Collected: 7/29/2011 11:35:00** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0953	J	0.0600	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: SL-126-SA6-SB-4.0-5.0 **Collected: 7/29/2011 11:35:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0765	U	0.0765	MDL	0.207	PQL	mg/Kg	UJ	Q
ARSENIC	3.58		0.0827	MDL	0.414	PQL	mg/Kg	J	Q
CADMIUM	0.0455	U	0.0455	MDL	0.103	PQL	mg/Kg	UJ	E
CHROMIUM	12.0		0.124	MDL	0.414	PQL	mg/Kg	J	Q, E, Q, A
LEAD	4.01		0.0105	MDL	0.207	PQL	mg/Kg	J	Q, E
NICKEL	6.05		0.103	MDL	0.414	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0347	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-126-SA6-SB-9.0-10.0 **Collected: 7/29/2011 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	0.193	J	0.0611	MDL	0.421	PQL	mg/Kg	J	Z

Sample ID: SL-126-SA6-SB-9.0-10.0 **Collected: 7/29/2011 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	0.0779	U	0.0779	MDL	0.211	PQL	mg/Kg	UJ	Q
ARSENIC	4.38		0.0843	MDL	0.421	PQL	mg/Kg	J	Q
CADMIUM	0.0463	U	0.0463	MDL	0.105	PQL	mg/Kg	UJ	E
CHROMIUM	15.3		0.126	MDL	0.421	PQL	mg/Kg	J	Q, E, Q, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE212

Laboratory: LL

EDD Filename: DE212_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-126-SA6-SB-9.0-10.0** ***Collected:*** **7/29/2011 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
LEAD	5.81		0.0107	MDL	0.211	PQL	mg/Kg	J	Q, E
NICKEL	7.57		0.105	MDL	0.421	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0720	J	0.0150	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: **SL-174-SA5DN-SB-4.0-5.0** ***Collected:*** **7/29/2011 2:49:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0869	J	0.0656	MDL	0.453	PQL	mg/Kg	J	Z

Sample ID: **SL-174-SA5DN-SB-4.0-5.0** ***Collected:*** **7/29/2011 2:49:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0837	U	0.0837	MDL	0.226	PQL	mg/Kg	UJ	Q
ARSENIC	6.31		0.0905	MDL	0.453	PQL	mg/Kg	J	Q
CADMIUM	0.275		0.0498	MDL	0.113	PQL	mg/Kg	J	E
CHROMIUM	28.0		0.136	MDL	0.453	PQL	mg/Kg	J	Q, E, Q, A
LEAD	8.44		0.0115	MDL	0.226	PQL	mg/Kg	J	Q, E
NICKEL	20.1		0.113	MDL	0.453	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0429	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z

Sample ID: **SL-174-SA5DN-SB-9.0-10.0** ***Collected:*** **7/29/2011 2:51:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.100	J	0.0827	MDL	0.223	PQL	mg/Kg	J	Z, Q
ARSENIC	6.67		0.0894	MDL	0.447	PQL	mg/Kg	J	Q
CADMIUM	0.0902	J	0.0492	MDL	0.112	PQL	mg/Kg	J	Z, E
CHROMIUM	26.7		0.134	MDL	0.447	PQL	mg/Kg	J	Q, E, Q, A
LEAD	8.06		0.0114	MDL	0.223	PQL	mg/Kg	J	Q, E
NICKEL	18.9		0.112	MDL	0.447	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0683	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: **SL-180-SA5DN-SB-4.0-5.0** ***Collected:*** **7/29/2011 9:10:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.115	J	0.0648	MDL	0.447	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: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-180-SA5DN-SB-4.0-5.0 **Collected: 7/29/2011 9:10:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0855	J	0.0827	MDL	0.224	PQL	mg/Kg	J	Z, Q
ARSENIC	4.84		0.0894	MDL	0.447	PQL	mg/Kg	J	Q
CADMIUM	0.280		0.0492	MDL	0.112	PQL	mg/Kg	J	E
CHROMIUM	24.4		0.134	MDL	0.447	PQL	mg/Kg	J	Q, E, Q, A
LEAD	6.42		0.0114	MDL	0.224	PQL	mg/Kg	J	Q, E
NICKEL	15.9		0.112	MDL	0.447	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0477	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-180-SA5DN-SB-9.0-10.0 **Collected: 7/29/2011 9:12:00** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0863	J	0.0695	MDL	0.479	PQL	mg/Kg	J	Z

Sample ID: SL-180-SA5DN-SB-9.0-10.0 **Collected: 7/29/2011 9:12:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0886	U	0.0886	MDL	0.240	PQL	mg/Kg	UJ	Q
ARSENIC	5.94		0.0958	MDL	0.479	PQL	mg/Kg	J	Q
CADMIUM	0.394		0.0527	MDL	0.120	PQL	mg/Kg	J	E
CHROMIUM	26.9		0.144	MDL	0.479	PQL	mg/Kg	J	Q, E, Q, A
LEAD	7.21		0.0122	MDL	0.240	PQL	mg/Kg	J	Q, E
NICKEL	17.4		0.120	MDL	0.479	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0467	J	0.0170	MDL	0.120	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: DUP10-SA6-QC-072911 **Collected: 7/29/2011 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	0.33	J	0.23	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: DE212
EDD Filename: DE212_v1
Laboratory: LL
eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 7199 **Matrix:** SO

Sample ID: SL-122-SA6-SB-0.0-0.5 **Collected:** 7/29/2011 2:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.28	J	0.20	MDL	0.99	PQL	mg/Kg	J	Z

Sample ID: SL-123-SA6-SB-7.0-8.0 **Collected:** 7/29/2011 9:50:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.39	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-125-SA6-SB-20.0-21.0 **Collected:** 7/29/2011 8:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.31	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-125-SA6-SB-4.0-5.0 **Collected:** 7/29/2011 7:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-126-SA6-SB-4.0-5.0 **Collected:** 7/29/2011 11:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-126-SA6-SB-9.0-10.0 **Collected:** 7/29/2011 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
HEXAVALENT CHROMIUM	0.31	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-174-SA5DN-SB-4.0-5.0 **Collected:** 7/29/2011 2:49:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.24	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-174-SA5DN-SB-9.0-10.0 **Collected:** 7/29/2011 2:51:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.66	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: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-180-SA5DN-SB-4.0-5.0 **Collected: 7/29/2011 9:10:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.28	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-180-SA5DN-SB-9.0-10.0 **Collected: 7/29/2011 9:12:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: DUP10-SA6-QC-072911 **Collected: 7/29/2011 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	0.509		0.0080	MDL	0.113	PQL	mg/Kg	J	Q, FD

Sample ID: SL-122-SA6-SB-0.0-0.5 **Collected: 7/29/2011 2:30:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0136	J	0.0069	MDL	0.0986	PQL	mg/Kg	J	Z, Q

Sample ID: SL-123-SA6-SB-4.0-5.0 **Collected: 7/29/2011 9:40:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0700	J	0.0077	MDL	0.109	PQL	mg/Kg	J	Z, Q

Sample ID: SL-123-SA6-SB-7.0-8.0 **Collected: 7/29/2011 9:50:00** **Analysis Type: RES** **Dilution: 10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	3.22		0.0734	MDL	1.04	PQL	mg/Kg	J	Q

Sample ID: SL-125-SA6-SB-20.0-21.0 **Collected: 7/29/2011 8:15:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.233		0.0075	MDL	0.107	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE212

Laboratory: LL

EDD Filename: DE212_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-125-SA6-SB-4.0-5.0 **Collected:** 7/29/2011 7:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0790	J	0.0074	MDL	0.105	PQL	mg/Kg	J	Z, Q, FD

Sample ID: SL-126-SA6-SB-4.0-5.0 **Collected:** 7/29/2011 11:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0189	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z, Q

Sample ID: SL-126-SA6-SB-9.0-10.0 **Collected:** 7/29/2011 11:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0075	U	0.0075	MDL	0.106	PQL	mg/Kg	UJ	Q

Sample ID: SL-174-SA5DN-SB-4.0-5.0 **Collected:** 7/29/2011 2:49:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0095	J	0.0081	MDL	0.116	PQL	mg/Kg	J	Z, Q

Sample ID: SL-174-SA5DN-SB-9.0-10.0 **Collected:** 7/29/2011 2:51:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0175	J	0.0077	MDL	0.110	PQL	mg/Kg	J	Z, Q

Sample ID: SL-180-SA5DN-SB-4.0-5.0 **Collected:** 7/29/2011 9:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0076	U	0.0076	MDL	0.109	PQL	mg/Kg	UJ	Q

Sample ID: SL-180-SA5DN-SB-9.0-10.0 **Collected:** 7/29/2011 9:12:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0096	J	0.0081	MDL	0.116	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE212 **Laboratory: LL**

EDD Filename: DE212_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: DUP10-SA6-QC-072911 **Collected:** 7/29/2011 8:00:00 **Analysis Type:** REA2 **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	9.2	J	4.5	MDL	14	PQL	mg/Kg	J	Z, FD
EFH (C21-C30)	63		4.5	MDL	14	PQL	mg/Kg	J	FD
EFH (C30-C40)	130		4.5	MDL	14	PQL	mg/Kg	J	FD

Sample ID: SL-125-SA6-SB-4.0-5.0 **Collected:** 7/29/2011 7:55:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.5	U	5.5	MDL	11	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.5	U	5.5	MDL	11	PQL	mg/Kg	UJ	Q

Sample ID: SL-125-SA6-SB-4.0-5.0 **Collected:** 7/29/2011 7:55:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.88	U	0.88	MDL	2.6	PQL	mg/Kg	R	Q
EFH (C15-C20)	0.88	U	0.88	MDL	2.6	PQL	mg/Kg	UJ	FD
EFH (C21-C30)	7.7		0.88	MDL	2.6	PQL	mg/Kg	J	Q, Q, FD
EFH (C30-C40)	19		0.88	MDL	2.6	PQL	mg/Kg	J	FD
EFH (C8-C11)	0.88	U	0.88	MDL	2.6	PQL	mg/Kg	R	Q

Sample ID: SL-126-SA6-SB-4.0-5.0 **Collected:** 7/29/2011 11:35:00 **Analysis Type:** REA2 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.71	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: DUP10-SA6-QC-072911 **Collected:** 7/29/2011 8:00:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	6.9		0.38	MDL	1.9	PQL	ug/Kg	J	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: **SL-125-SA6-SB-4.0-5.0** *Collected:* **7/29/2011 7:55:00** *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	3.9		0.36	MDL	1.9	PQL	ug/Kg	J	FD

Sample ID: **SL-174-SA5DN-SB-9.0-10.0** *Collected:* **7/29/2011 2:51:00** *Analysis Type:* **RES-BASE/NEUTRAL** *Dilution:* **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.82	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: **DUP10-SA6-QC-072911** *Collected:* **7/29/2011 8:00:00** *Analysis Type:* **RES-BASE/NEUTRAL** *Dilution:* **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	50	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	57	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	85	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	65	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	28	J	19	MDL	190	PQL	ug/Kg	J	Z
CHRYSENE	54	J	19	MDL	190	PQL	ug/Kg	J	Z
FLUORANTHENE	89	J	19	MDL	190	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	36	J	19	MDL	190	PQL	ug/Kg	J	Z
PHENANTHRENE	21	J	19	MDL	190	PQL	ug/Kg	J	Z, L
PYRENE	95	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: **SL-123-SA6-SB-7.0-8.0** *Collected:* **7/29/2011 9:50:00** *Analysis Type:* **RES-BASE/NEUTRAL** *Dilution:* **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	28	J	18	MDL	180	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	130	J	18	MDL	360	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	19	J	18	MDL	180	PQL	ug/Kg	J	Z, L

Sample ID: **SL-180-SA5DN-SB-4.0-5.0** *Collected:* **7/29/2011 9:10:00** *Analysis Type:* **RES-BASE/NEUTRAL** *Dilution:* **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	59	J	19	MDL	380	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: DE212
EDD Filename: DE212_v1

Laboratory: LL
eQAPP Name: CDM_SSFL_110509

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

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

Sample ID: DUP10-SA6-QC-072911 ***Collected:*** 7/29/2011 8:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
ACENAPHTHYLENE	0.38	U	0.38	MDL	1.9	PQL	ug/Kg	UJ	FD
ANTHRACENE	0.38	U	0.38	MDL	1.9	PQL	ug/Kg	UJ	FD
Butylbenzylphthalate	8.2	J	6.8	MDL	20	PQL	ug/Kg	J	Z, L
DIBENZO(A,H)ANTHRACENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
Di-n-butylphthalate	14	J	6.8	MDL	20	PQL	ug/Kg	J	Z, FD
FLUORENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD

Sample ID: SL-122-SA6-SB-0.0-0.5 ***Collected:*** 7/29/2011 2:30:00 ***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	3.7	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	5.4	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
Butylbenzylphthalate	36	J	30	MDL	91	PQL	ug/Kg	J	Z, L
CHRYSENE	4.2	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z
Di-n-butylphthalate	59	J	30	MDL	91	PQL	ug/Kg	J	Z
FLUORANTHENE	4.4	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
PYRENE	4.3	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z

Sample ID: SL-123-SA6-SB-4.0-5.0 ***Collected:*** 7/29/2011 9:40:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	3.3	J	1.8	MDL	9.1	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	45	J	33	MDL	98	PQL	ug/Kg	J	Z
Butylbenzylphthalate	38	J	33	MDL	98	PQL	ug/Kg	J	Z, L
Di-n-butylphthalate	55	J	33	MDL	98	PQL	ug/Kg	J	Z

Sample ID: SL-123-SA6-SB-7.0-8.0 ***Collected:*** 7/29/2011 9:50:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	4.1	J	3.6	MDL	9.1	PQL	ug/Kg	J	Z
Butylbenzylphthalate	58	J	33	MDL	98	PQL	ug/Kg	J	Z, L

* 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: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-123-SA6-SB-7.0-8.0 **Collected:** 7/29/2011 9:50:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	70	J	33	MDL	98	PQL	ug/Kg	J	Z
Di-n-octylphthalate	41	J	33	MDL	98	PQL	ug/Kg	J	Z

Sample ID: SL-125-SA6-SB-20.0-21.0 **Collected:** 7/29/2011 8:15:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	6.1	J	3.8	MDL	9.6	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	2.4	J	1.9	MDL	9.6	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	46	J	35	MDL	100	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	4.9	J	3.8	MDL	9.6	PQL	ug/Kg	J	Z
Di-n-butylphthalate	56	J	35	MDL	100	PQL	ug/Kg	J	Z

Sample ID: SL-125-SA6-SB-4.0-5.0 **Collected:** 7/29/2011 7:55:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	97		3.6	MDL	9.1	PQL	ug/Kg	J	FD
ACENAPHTHYLENE	3.7	J	1.8	MDL	9.1	PQL	ug/Kg	J	Z, FD
ANTHRACENE	730		1.8	MDL	9.1	PQL	ug/Kg	J	FD
BIS(2-ETHYLHEXYL)PHTHALATE	84	J	33	MDL	98	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	69		3.6	MDL	9.1	PQL	ug/Kg	J	FD
Di-n-butylphthalate	57	J	33	MDL	98	PQL	ug/Kg	J	Z, FD
FLUORENE	110		3.6	MDL	9.1	PQL	ug/Kg	J	FD

Sample ID: SL-126-SA6-SB-4.0-5.0 **Collected:** 7/29/2011 11:35:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.69	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.93	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Butylbenzylphthalate	8.6	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-butylphthalate	13	J	6.4	MDL	19	PQL	ug/Kg	J	Z, L

* 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: DE212
EDD Filename: DE212_v1
Laboratory: LL
eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-126-SA6-SB-9.0-10.0 **Collected:** 7/29/2011 11:45:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.8	J	6.6	MDL	20	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.5	J	6.6	MDL	20	PQL	ug/Kg	J	Z, L
Di-n-butylphthalate	13	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-174-SA5DN-SB-4.0-5.0 **Collected:** 7/29/2011 2:49:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	7.0	J	1.9	MDL	9.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	56	J	35	MDL	100	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	6.4	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	5.7	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z

Sample ID: SL-174-SA5DN-SB-9.0-10.0 **Collected:** 7/29/2011 2:51:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.39	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.9	MDL	21	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.9	J	6.9	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	0.42	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z, L
Di-n-butylphthalate	13	J	6.9	MDL	21	PQL	ug/Kg	J	Z
PHENANTHRENE	0.85	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	0.91	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-180-SA5DN-SB-4.0-5.0 **Collected:** 7/29/2011 9:10:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.3	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
Butylbenzylphthalate	10	J	6.8	MDL	21	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.2	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z, L
Di-n-butylphthalate	15	J	6.8	MDL	21	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.6	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-180-SA5DN-SB-9.0-10.0 **Collected:** 7/29/2011 9:12:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	39	J	36	MDL	110	PQL	ug/Kg	J	Z
Di-n-butylphthalate	56	J	36	MDL	110	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-125-SA6-SB-4.0-5.0 **Collected:** 7/29/2011 7:55:00 **Analysis Type:** REA3 **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	3.8	PQL	mg/Kg	UJ	Q
p-Terphenyl	1.6	U	1.6	MDL	3.8	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

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

Data Qualifier Summary

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE212

Method Blank Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21408GB220201	8/4/2011 2:01:00 AM	ALUMINUM IRON PHOSPHORUS POTASSIUM TIN Zirconium	10.4 mg/Kg 6.50 mg/Kg 1.69 mg/Kg 14.9 mg/Kg 1.59 mg/Kg 1.38 mg/Kg	DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0
P21408GB220953	8/4/2011 9:53:00 AM	CALCIUM	5.04 mg/Kg	DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-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
DUP10-SA6-QC-072911(RES)	TIN	2.95 mg/Kg	2.95U mg/Kg
DUP10-SA6-QC-072911(RES)	Zirconium	4.91 mg/Kg	4.91U mg/Kg
SL-122-SA6-SB-0.0-0.5(RES)	TIN	3.22 mg/Kg	3.22U mg/Kg
SL-122-SA6-SB-0.0-0.5(RES)	Zirconium	6.52 mg/Kg	6.52U mg/Kg
SL-123-SA6-SB-4.0-5.0(RES)	TIN	2.52 mg/Kg	2.52U mg/Kg
SL-123-SA6-SB-4.0-5.0(RES)	Zirconium	3.49 mg/Kg	3.49U mg/Kg
SL-123-SA6-SB-7.0-8.0(RES)	TIN	2.88 mg/Kg	2.88U mg/Kg
SL-123-SA6-SB-7.0-8.0(RES)	Zirconium	4.70 mg/Kg	4.70U mg/Kg
SL-125-SA6-SB-20.0-21.0(RES)	TIN	3.18 mg/Kg	3.18U mg/Kg
SL-125-SA6-SB-20.0-21.0(RES)	Zirconium	5.77 mg/Kg	5.77U mg/Kg
SL-125-SA6-SB-4.0-5.0(RES)	TIN	2.96 mg/Kg	2.96U mg/Kg
SL-125-SA6-SB-4.0-5.0(RES)	Zirconium	5.55 mg/Kg	5.55U mg/Kg
SL-126-SA6-SB-4.0-5.0(RES)	TIN	2.86 mg/Kg	2.86U mg/Kg
SL-126-SA6-SB-4.0-5.0(RES)	Zirconium	3.66 mg/Kg	3.66U mg/Kg
SL-126-SA6-SB-9.0-10.0(RES)	TIN	3.11 mg/Kg	3.11U mg/Kg
SL-126-SA6-SB-9.0-10.0(RES)	Zirconium	3.36 mg/Kg	3.36U mg/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	TIN	3.41 mg/Kg	3.41U mg/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	TIN	3.43 mg/Kg	3.43U mg/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	Zirconium	6.72 mg/Kg	6.72U mg/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	Zirconium	6.75 mg/Kg	6.75U mg/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	TIN	3.23 mg/Kg	3.23U mg/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	Zirconium	6.66 mg/Kg	6.66U mg/Kg

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

Method Blank Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLD22B260750	8/18/2011 7:50:00 AM	Diethylphthalate	15 ug/Kg	DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

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-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (SL-125-SA6-SB-4.0-5.0)	DIETHYLENE GLYCOL ETHYLENE GLYCOL	34 -	32 61	59.00-109.00 63.00-107.00	- -	DIETHYLENE GLYCOL ETHYLENE GLYCOL	J (all detects) UJ (all non-detects)
SL-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (SL-125-SA6-SB-4.0-5.0)	EFH (C15-C20) EFH (C21-C30) EFH (C30-C40)	- 177 132	179 301 164	49.00-123.00 49.00-123.00 49.00-123.00	39 (20.00) 22 (20.00) -	EFH (C15-C20) EFH (C21-C30) EFH (C30-C40)	J(all detects) EFH (C30-C40), No Qual, >4x
SL-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (SL-125-SA6-SB-4.0-5.0)	EFH (C12-C14) EFH (C8-C11)	0 0	0 0	49.00-123.00 49.00-123.00	- -	EFH (C12-C14) EFH (C8-C11)	J(all detects) R(all non-detects)

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (SL-125-SA6-SB-4.0-5.0)	m-Terphenyl p-Terphenyl	72 69	68 66	75.00-125.00 75.00-125.00	- -	m-Terphenyl p-Terphenyl	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-125-SA6-SB-4.0-5.0MSD (DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0)	ARSENIC	-	163	75.00-125.00	-	ARSENIC	J(all detects)
SL-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0)	CHROMIUM VANADIUM ZINC	141 - 69	24 -6 -5	75.00-125.00 75.00-125.00 75.00-125.00	43 (20.00) - -	CHROMIUM VANADIUM ZINC	J(all detects) R(all non-detects) V, Zn, No Qual, >4x Cr post spike = 136%

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

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-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0)	ANTIMONY LEAD NICKEL	30 - 130	37 174 60	75.00-125.00 75.00-125.00 75.00-125.00	- 21 (20.00) 32 (20.00)	ANTIMONY LEAD NICKEL	J(all detects) UJ(all non-detects)
SL-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0)	BARIUM	217	166	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-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0)	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS TITANIUM	-708 -1906 -5104 -506 28 -39 -8	2535 376 1909 484 157 65 359	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	36 (20.00) 42 (20.00) 34 (20.00) 36 (20.00) 22 (20.00) 21 (20.00) 30 (20.00)	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS TITANIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x
SL-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0)	POTASSIUM	44	181	75.00-125.00	31 (20.00)	POTASSIUM	J(all detects) UJ(all non-detects)

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-125-SA6-SB-4.0-5.0MSD (DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0)	MERCURY	-	62	65.00-135.00	-	MERCURY	J(all detects) UJ(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-126-SA6-SB-9.0-10.0MS (DUP10-SA6-QC-072911 SL-126-SA6-SB-9.0-10.0)	FLUORIDE	72	-	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-125-SA6-SB-4.0-5.0MSD (SL-125-SA6-SB-4.0-5.0)	PENTACHLOROPHENOL	-	-	28.00-127.00	50 (30.00)	PENTACHLOROPHENOL	J(all detects)

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (SL-125-SA6-SB-4.0-5.0)	Butylbenzylphthalate	227	229	57.00-173.00	-	Butylbenzylphthalate	No Qual, Diluted Out

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

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-125-SA6-SB-4.0-5.0MS SL-125-SA6-SB-4.0-5.0MSD (SL-125-SA6-SB-4.0-5.0)	ACENAPHTHENE	-165	-174	63.00-105.00	-	ACENAPHTHENE	No Qual, Diluted Out
	ANTHRACENE	-1832	-1897	73.00-115.00	48 (30.00)	ANTHRACENE	
	BENZO(A)ANTHRACENE	-2403	-2499	59.00-128.00	55 (30.00)	BENZO(A)ANTHRACENE	
	BENZO(A)PYRENE	-1331	-1392	45.00-138.00	46 (30.00)	BENZO(A)PYRENE	
	BENZO(B)FLUORANTHENE	-2337	-2425	43.00-155.00	57 (30.00)	BENZO(B)FLUORANTHENE	
	BENZO(G,H,I)PERYLENE	-701	-736	33.00-141.00	32 (30.00)	BENZO(G,H,I)PERYLENE	
	BENZO(K)FLUORANTHENE	-995	-1035	57.00-153.00	32 (30.00)	BENZO(K)FLUORANTHENE	
	BIS(2-ETHYLHEXYL)PHTHALAT	-9	1	39.00-167.00	-	BIS(2-ETHYLHEXYL)PHTHALA	
	CHRYSENE	-1855	-1939	48.00-134.00	57 (30.00)	CHRYSENE	
	DIBENZO(A,H)ANTHRACENE	-111	-116	22.00-133.00	-	DIBENZO(A,H)ANTHRACENE	
	FLUORANTHENE	-8183	-8456	26.00-166.00	102 (30.00)	FLUORANTHENE	
	FLUORENE	-190	-200	66.00-122.00	-	FLUORENE	
	INDENO(1,2,3-CD)PYRENE	-651	-681	21.00-143.00	32 (30.00)	INDENO(1,2,3-CD)PYRENE	
	PHENANTHRENE	-6778	-7003	12.00-165.00	101 (30.00)	PHENANTHRENE	
	PYRENE	-4973	-5162	15.00-153.00	87 (30.00)	PYRENE	

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-125-SA6-SB-4.0-5.0DUP	STRONTIUM	21	20.00	J (all detects) UJ (all non-detects)
(DUP10 -SA6-QC-072911	Zirconium	29	20.00	Zr, No Qual, OK by Difference
SL -122-SA6-SB-0.0-0.5				
SL -123-SA6-SB-4.0-5.0				
SL -123-SA6-SB-7.0-8.0				
SL -125-SA6-SB-20.0-21.0				
SL -125-SA6-SB-4.0-5.0				
SL -126-SA6-SB-4.0-5.0				
SL -126-SA6-SB-9.0-10.0				
SL -174-SA5DN-SB-4.0-5.0				
SL -174-SA5DN-SB-9.0-10.0				
SL -180-SA5DN-SB-4.0-5.0				
SL -180-SA5DN-SB-9.0-10.0)				

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-125-SA6-SB-4.0-5.0DUP	ANTIMONY	31	20.00	J(all detects) UJ(all non-detects)
(DUP10 -SA6-QC-072911	CADMIUM	0.2506	0.212	Sb, Se, Ag, No Qual, OK by Difference
SL -122-SA6-SB-0.0-0.5	SELENIUM	22	20.00	
SL -123-SA6-SB-4.0-5.0	SILVER	47	20.00	
SL -123-SA6-SB-7.0-8.0				
SL -125-SA6-SB-20.0-21.0				
SL -125-SA6-SB-4.0-5.0				
SL -126-SA6-SB-4.0-5.0				
SL -126-SA6-SB-9.0-10.0				
SL -174-SA5DN-SB-4.0-5.0				
SL -174-SA5DN-SB-9.0-10.0				
SL -180-SA5DN-SB-4.0-5.0				
SL -180-SA5DN-SB-9.0-10.0)				

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-125-SA6-SB-4.0-5.0DUP	MERCURY	21	20.00	No Qual, OK by Difference
(DUP10 -SA6-QC-072911				
SL -122-SA6-SB-0.0-0.5				
SL -123-SA6-SB-4.0-5.0				
SL -123-SA6-SB-7.0-8.0				
SL -125-SA6-SB-20.0-21.0				
SL -125-SA6-SB-4.0-5.0				
SL -126-SA6-SB-4.0-5.0				
SL -126-SA6-SB-9.0-10.0				
SL -174-SA5DN-SB-4.0-5.0				
SL -174-SA5DN-SB-9.0-10.0				
SL -180-SA5DN-SB-4.0-5.0				
SL -180-SA5DN-SB-9.0-10.0)				

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

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
P21426CQ222340A (DUP10 -SA6-QC-072911 SL -122-SA6-SB-0.0-0.5 SL -123-SA6-SB-4.0-5.0 SL -123-SA6-SB-7.0-8.0 SL -125-SA6-SB-20.0-21.0 SL -125-SA6-SB-4.0-5.0 SL -126-SA6-SB-4.0-5.0 SL -126-SA6-SB-9.0-10.0 SL -174-SA5DN -SB-4.0-5.0 SL -174-SA5DN -SB-9.0-10.0 SL -180-SA5DN -SB-4.0-5.0 SL -180-SA5DN -SB-9.0-10.0)	ANTIMONY	65	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P21408GQ220205 (DUP10 -SA6-QC-072911 SL -122-SA6-SB-0.0-0.5 SL -123-SA6-SB-4.0-5.0 SL -123-SA6-SB-7.0-8.0 SL -125-SA6-SB-20.0-21.0 SL -125-SA6-SB-4.0-5.0 SL -126-SA6-SB-4.0-5.0 SL -126-SA6-SB-9.0-10.0 SL -174-SA5DN -SB-4.0-5.0 SL -174-SA5DN -SB-9.0-10.0 SL -180-SA5DN -SB-4.0-5.0 SL -180-SA5DN -SB-9.0-10.0)	ALUMINUM TITANIUM	137 170	- -	80.00-120.00 80.00-120.00	- -	ALUMINUM 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
P1LELCSQ262114 (DUP10 -SA6-QC-072911 SL -122-SA6-SB-0.0-0.5 SL -123-SA6-SB-4.0-5.0 SL -123-SA6-SB-7.0-8.0 SL -125-SA6-SB-20.0-21.0 SL -125-SA6-SB-4.0-5.0 SL -126-SA6-SB-4.0-5.0 SL -126-SA6-SB-9.0-10.0 SL -174-SA5DN -SB-4.0-5.0 SL -174-SA5DN -SB-9.0-10.0 SL -180-SA5DN -SB-4.0-5.0 SL -180-SA5DN -SB-9.0-10.0)	INDENO(1,2,3-CD)PYRENE	121	-	64.00-119.00	-	INDENO(1,2,3-CD)PYRENE	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

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
P2LDLCSQ260823 (DUP10 -SA6-QC-072911 SL -122-SA6-SB-0.0-0.5 SL -123-SA6-SB-4.0-5.0 SL -123-SA6-SB-7.0-8.0 SL -125-SA6-SB-20.0-21.0 SL -125-SA6-SB-4.0-5.0 SL -126-SA6-SB-4.0-5.0 SL -126-SA6-SB-9.0-10.0 SL -174-SA5DN -SB-4.0-5.0 SL -174-SA5DN -SB-9.0-10.0 SL -180-SA5DN -SB-4.0-5.0 SL -180-SA5DN -SB-9.0-10.0)	Butylbenzylphthalate	133	-	65.00-131.00	-	Butylbenzylphthalate	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-123-SA6-SB-4.0 -5.0	DECACHLOROBIPHENYL	0	45.00-120.00	All Target Analytes	No Qual, Diluted Out

Method: 8270C SIM
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-123-SA6-SB-7.0 -8.0	Terphenyl-d14	347	45.00-135.00	No Affected Compounds	No Qual, Diluted Out
SL-174-SA5DN-SB -4.0-5.0	Terphenyl-d14	153	45.00-135.00	No Affected Compounds	No Qual, Diluted Out
SL-180-SA5DN-SB -9.0-10.0	2-FLUOROBIPHENYL Nitrobenzene-d5	19 34	45.00-130.00 40.00-130.00	All Base/Neutral Target Analytes	No Qual, Diluted Out

Field Duplicate RPD Report

Lab Reporting Batch ID: DE212

Laboratory: LL

EDD Filename: DE212_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
MOISTURE	8.6	12.0	33		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
FLUORIDE	1.9	1.2 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
ALUMINUM	17500	12400	34	50.00	No Qualifiers Applied
IRON	23800	26700	11	50.00	
LITHIUM	24.2	16.7	37	50.00	
MAGNESIUM	5990	4650	25	50.00	
MANGANESE	272	251	8	50.00	
PHOSPHORUS	527	479	10	50.00	
POTASSIUM	3610	2310	44	50.00	
SODIUM	227	283	22	50.00	
STRONTIUM	58.0	34.7	50	50.00	
TIN	2.96	2.95	0	50.00	
TITANIUM	1130	1000	12	50.00	
Zirconium	5.55	4.91	12	50.00	
BORON	5.81	1.30	127	50.00	J(all detects)
CALCIUM	26400	10900	83	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
ANTIMONY	0.129	0.110	16	50.00	No Qualifiers Applied
BARIUM	75.9	101	28	50.00	
BERYLLIUM	0.518	0.382	30	50.00	
CADMIUM	0.202	0.216	7	50.00	
CHROMIUM	21.2	16.1	27	50.00	
LEAD	6.78	10.2	40	50.00	
NICKEL	13.7	9.96	32	50.00	
SELENIUM	0.166	0.117	35	50.00	
SILVER	0.0238	0.0386	47	50.00	
THALLIUM	0.263	0.171	42	50.00	
VANADIUM	44.7	38.0	16	50.00	
ZINC	55.3	50.6	9	50.00	
ARSENIC	4.45	9.88	76	50.00	J(all detects)
COBALT	7.17	13.9	64	50.00	
COPPER	11.1	22.1	66	50.00	
MOLYBDENUM	0.346	2.05	142	50.00	

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
HEXAVALENT CHROMIUM	0.26	0.33	24	50.00	No Qualifiers Applied

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
MERCURY	0.0790	0.509	146	50.00	J(all detects)

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
EFH (C15-C20)	2.6 U	9.2	200	50.00	J(all detects) UJ(all non-detects)
EFH (C21-C30)	7.7	63	156	50.00	
EFH (C30-C40)	19	130	149	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
Aroclor 5460	6.5	7.8	18	50.00	No Qualifiers Applied
AROCLOR 1254	3.9	6.9	56	50.00	J(all detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
ACENAPHTHENE	97	1.9 U	200	50.00	J(all detects) UJ(all non-detects)
ACENAPHTHYLENE	3.7	1.9 U	200	50.00	
ANTHRACENE	730	1.9 U	200	50.00	
DIBENZO(A,H)ANTHRACENE	69	1.9 U	200	50.00	
Di-n-butylphthalate	57	14	121	50.00	
FLUORENE	110	1.9 U	200	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
PH	8.25	10.1	20	50.00	No Qualifiers Applied

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

Reporting Limit Outliers

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA6-QC-072911	BORON	J	1.30	5.52	PQL	mg/Kg	J (all detects)
	TIN	J	2.95	11.0	PQL	mg/Kg	
	Zirconium	J	4.91	5.52	PQL	mg/Kg	
SL-122-SA6-SB-0.0-0.5	TIN	J	3.22	9.87	PQL	mg/Kg	J (all detects)
SL-123-SA6-SB-4.0-5.0	BORON	J	2.18	5.26	PQL	mg/Kg	J (all detects)
	TIN	J	2.52	10.5	PQL	mg/Kg	
	Zirconium	J	3.49	5.26	PQL	mg/Kg	
SL-123-SA6-SB-7.0-8.0	BORON	J	1.44	5.39	PQL	mg/Kg	J (all detects)
	TIN	J	2.88	10.8	PQL	mg/Kg	
	Zirconium	J	4.70	5.39	PQL	mg/Kg	
SL-125-SA6-SB-20.0-21.0	BORON	J	1.81	5.70	PQL	mg/Kg	J (all detects)
	TIN	J	3.18	11.4	PQL	mg/Kg	
SL-125-SA6-SB-4.0-5.0	TIN	J	2.96	10.8	PQL	mg/Kg	J (all detects)
SL-126-SA6-SB-4.0-5.0	BORON	J	1.43	5.27	PQL	mg/Kg	J (all detects)
	SODIUM	J	80.2	105	PQL	mg/Kg	
	TIN	J	2.86	10.5	PQL	mg/Kg	
	Zirconium	J	3.66	5.27	PQL	mg/Kg	
SL-126-SA6-SB-9.0-10.0	BORON	J	1.98	5.48	PQL	mg/Kg	J (all detects)
	TIN	J	3.11	11.0	PQL	mg/Kg	
	Zirconium	J	3.36	5.48	PQL	mg/Kg	
SL-174-SA5DN-SB-4.0-5.0	TIN	J	3.41	11.3	PQL	mg/Kg	J (all detects)
SL-174-SA5DN-SB-9.0-10.0	BORON	J	4.55	5.53	PQL	mg/Kg	J (all detects)
	TIN	J	3.43	11.1	PQL	mg/Kg	
SL-180-SA5DN-SB-4.0-5.0	TIN	J	3.05	11.0	PQL	mg/Kg	J (all detects)
SL-180-SA5DN-SB-9.0-10.0	TIN	J	3.23	11.5	PQL	mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA6-QC-072911	ANTIMONY	J	0.110	0.219	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.117	0.437	PQL	mg/Kg	
	SILVER	J	0.0386	0.109	PQL	mg/Kg	
SL-122-SA6-SB-0.0-0.5	ANTIMONY	J	0.161	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0903	0.399	PQL	mg/Kg	
	SILVER	J	0.0322	0.0997	PQL	mg/Kg	
SL-123-SA6-SB-4.0-5.0	ANTIMONY	J	0.0849	0.217	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0839	0.108	PQL	mg/Kg	
	SELENIUM	J	0.166	0.433	PQL	mg/Kg	
	SILVER	J	0.0304	0.108	PQL	mg/Kg	
SL-123-SA6-SB-7.0-8.0	SELENIUM	J	0.0999	0.423	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0289	0.106	PQL	mg/Kg	
SL-125-SA6-SB-20.0-21.0	SILVER	J	0.0420	0.114	PQL	mg/Kg	J (all detects)
SL-125-SA6-SB-4.0-5.0	ANTIMONY	J	0.129	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.166	0.425	PQL	mg/Kg	
	SILVER	J	0.0238	0.106	PQL	mg/Kg	
SL-126-SA6-SB-4.0-5.0	SELENIUM	J	0.0953	0.414	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0347	0.103	PQL	mg/Kg	

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

Reporting Limit Outliers

Lab Reporting Batch ID: DE212 **Laboratory: LL**

EDD Filename: DE212_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-126-SA6-SB-9.0-10.0	SELENIUM	J	0.193	0.421	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0720	0.105	PQL	mg/Kg	
SL-174-SA5DN-SB-4.0-5.0	SELENIUM	J	0.0869	0.453	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0429	0.113	PQL	mg/Kg	
SL-174-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.100	0.223	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0902	0.112	PQL	mg/Kg	
	SILVER	J	0.0683	0.112	PQL	mg/Kg	
SL-180-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.0855	0.224	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.115	0.447	PQL	mg/Kg	
	SILVER	J	0.0477	0.112	PQL	mg/Kg	
SL-180-SA5DN-SB-9.0-10.0	SELENIUM	J	0.0863	0.479	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0467	0.120	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA6-QC-072911	HEXAVALENT CHROMIUM	J	0.33	1.1	PQL	mg/Kg	J (all detects)
SL-122-SA6-SB-0.0-0.5	HEXAVALENT CHROMIUM	J	0.28	0.99	PQL	mg/Kg	J (all detects)
SL-123-SA6-SB-7.0-8.0	HEXAVALENT CHROMIUM	J	0.39	1.1	PQL	mg/Kg	J (all detects)
SL-125-SA6-SB-20.0-21.0	HEXAVALENT CHROMIUM	J	0.31	1.2	PQL	mg/Kg	J (all detects)
SL-125-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.26	1.1	PQL	mg/Kg	J (all detects)
SL-126-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.27	1.1	PQL	mg/Kg	J (all detects)
SL-126-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.31	1.1	PQL	mg/Kg	J (all detects)
SL-174-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.24	1.2	PQL	mg/Kg	J (all detects)
SL-174-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.66	1.1	PQL	mg/Kg	J (all detects)
SL-180-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.28	1.2	PQL	mg/Kg	J (all detects)
SL-180-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.27	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-122-SA6-SB-0.0-0.5	MERCURY	J	0.0136	0.0986	PQL	mg/Kg	J (all detects)
SL-123-SA6-SB-4.0-5.0	MERCURY	J	0.0700	0.109	PQL	mg/Kg	J (all detects)
SL-125-SA6-SB-4.0-5.0	MERCURY	J	0.0790	0.105	PQL	mg/Kg	J (all detects)
SL-126-SA6-SB-4.0-5.0	MERCURY	J	0.0189	0.101	PQL	mg/Kg	J (all detects)
SL-174-SA5DN-SB-4.0-5.0	MERCURY	J	0.0095	0.116	PQL	mg/Kg	J (all detects)
SL-174-SA5DN-SB-9.0-10.0	MERCURY	J	0.0175	0.110	PQL	mg/Kg	J (all detects)
SL-180-SA5DN-SB-9.0-10.0	MERCURY	J	0.0096	0.116	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE212 **Laboratory: LL**

EDD Filename: DE212_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA6-QC-072911	EFH (C15-C20)	J	9.2	14	PQL	mg/Kg	J (all detects)
SL-126-SA6-SB-4.0-5.0	EFH (C30-C40)	J	0.71	1.3	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-174-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	0.82	2.0	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA6-QC-072911	BENZO(A)ANTHRACENE	J	50	190	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	57	190	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	85	190	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	65	190	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	28	190	PQL	ug/Kg	
	CHRYSENE	J	54	190	PQL	ug/Kg	
	FLUORANTHENE	J	89	190	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	36	190	PQL	ug/Kg	
	PHENANTHRENE	J	21	190	PQL	ug/Kg	
	PYRENE	J	95	190	PQL	ug/Kg	
SL-123-SA6-SB-7.0-8.0	BENZO(G,H,I)PERYLENE	J	28	180	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	130	360	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	19	180	PQL	ug/Kg	
SL-180-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	59	380	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA6-QC-072911	Butylbenzylphthalate	J	8.2	20	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	14	20	PQL	ug/Kg	
SL-122-SA6-SB-0.0-0.5	BENZO(B)FLUORANTHENE	J	3.7	8.4	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	5.4	8.4	PQL	ug/Kg	
	Butylbenzylphthalate	J	36	91	PQL	ug/Kg	
	CHRYSENE	J	4.2	8.4	PQL	ug/Kg	
	Di-n-butylphthalate	J	59	91	PQL	ug/Kg	
	FLUORANTHENE	J	4.4	8.4	PQL	ug/Kg	
	PYRENE	J	4.3	8.4	PQL	ug/Kg	
SL-123-SA6-SB-4.0-5.0	ANTHRACENE	J	3.3	9.1	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	45	98	PQL	ug/Kg	
	Butylbenzylphthalate	J	38	98	PQL	ug/Kg	
	Di-n-butylphthalate	J	55	98	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE212 **Laboratory: LL**

EDD Filename: DE212_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-123-SA6-SB-7.0-8.0	ACENAPHTHENE	J	4.1	9.1	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	58	98	PQL	ug/Kg	
	Di-n-butylphthalate	J	70	98	PQL	ug/Kg	
	Di-n-octylphthalate	J	41	98	PQL	ug/Kg	
SL-125-SA6-SB-20.0-21.0	ACENAPHTHENE	J	6.1	9.6	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	2.4	9.6	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	46	100	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	4.9	9.6	PQL	ug/Kg	
	Di-n-butylphthalate	J	56	100	PQL	ug/Kg	
SL-125-SA6-SB-4.0-5.0	ACENAPHTHYLENE	J	3.7	9.1	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	84	98	PQL	ug/Kg	
	Di-n-butylphthalate	J	57	98	PQL	ug/Kg	
SL-126-SA6-SB-4.0-5.0	ACENAPHTHYLENE	J	0.69	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.93	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	19	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.6	19	PQL	ug/Kg	
	Di-n-butylphthalate	J	13	19	PQL	ug/Kg	
SL-126-SA6-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.8	20	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	7.5	20	PQL	ug/Kg	
	Di-n-butylphthalate	J	13	20	PQL	ug/Kg	
SL-174-SA5DN-SB-4.0-5.0	ACENAPHTHYLENE	J	7.0	9.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	56	100	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	6.4	9.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	5.7	9.7	PQL	ug/Kg	
SL-174-SA5DN-SB-9.0-10.0	ANTHRACENE	J	0.39	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	21	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.9	21	PQL	ug/Kg	
	CHRYSENE	J	0.42	1.9	PQL	ug/Kg	
	Di-n-butylphthalate	J	13	21	PQL	ug/Kg	
	PHENANTHRENE	J	0.85	1.9	PQL	ug/Kg	
	PYRENE	J	0.91	1.9	PQL	ug/Kg	
SL-180-SA5DN-SB-4.0-5.0	ANTHRACENE	J	1.3	1.9	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	10	21	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.2	1.9	PQL	ug/Kg	
	Di-n-butylphthalate	J	15	21	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.6	1.9	PQL	ug/Kg	
SL-180-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	39	110	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	56	110	PQL	ug/Kg	

LDC #: 26533C4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/7/11
SDG #: DE212 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: ~
2nd Reviewer: A

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: 7/19/11
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	No qual by ICB/CCB
V.	ICP Interference Check Sample (ICS) Analysis	N	✓ ✓ ✓ ✓ ✓ ✓ ✓
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Mn, P, Ti, V, Zn >4X (No qual for J#)
VII.	Duplicate Sample Analysis	SW	Sb, Hg, Se, Ag, Zr <5X, Cd: 0.506 (RPD out J/UJ)
VIII.	Laboratory Control Samples (LCS)	N A	(difference) ≤0.1 J/UJ.
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Cr, J/UJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

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

Validated Samples: Soil

1	SL-180-SA5DN-SB-4.0-5.0	11	SL-126-SA6-SB-9.0-10.0	21	MB	31	
2	SL-180-SA5DN-SB-9.0-10.0	12	DUP10-SA6-QC-072911	22		32	
3	SL-174-SA5DN-SB-4.0-5.0	13	SL-125-SA6-SB-4.0-5.0MS	23		33	
4	SL-174-SA5DN-SB-9.0-10.0	14	SL-125-SA6-SB-4.0-5.0MSD	24		34	
5	SL-122-SA6-SB-0.0-0.5	15	SL-125-SA6-SB-4.0-5.0DUP	25		35	
6	SL-123-SA6-SB-4.0-5.0	16		26		36	
7	SL-123-SA6-SB-7.0-5.0	17		27		37	
8	SL-125-SA6-SB-4.0-5.0	18		28		38	
9	SL-125-SA6-SB-20.0-21.0	19		29		39	
10	SL-126-SA6-SB-4.0-5.0	20		30		40	

Notes: _____

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE212
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6360506BKG Matrix Spike Lab Sample ID: 6360507MS Matrix Spike Duplicate Lab Sample ID: 6360508MSD
% Solids for Sample: 91.4
Batch Id(s): P21408G, P21426C, P21411D

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	RPD	M
Aluminum		17450.8103		15931.8520		22996.9322		214.5278	218.8184	MG/KG	-708		2535		36	*		20	P
Antimony	121	0.1294	B	0.5245		0.6093		1.3129	1.2872	MG/KG	30	N	37	N	15		75 - 125	20	MS
Arsenic	75	4.4528		6.6280		7.9397		2.1882	2.1453	MG/KG	99		163	N	18		75 - 125	20	MS
Barium	137	75.8641		99.5842		93.6628		10.9409	10.7264	MG/KG	217		166		6			20	MS
Beryllium	9	0.5184		1.2560		1.1799		0.8753	0.8581	MG/KG	84		77		6		75 - 125	20	MS
Boron		5.8128		211.3603		216.7768		214.5278	218.8184	MG/KG	96		96		3		84 - 115	20	P
Cadmium	111	0.2018		1.2597		1.2548		1.0941	1.0726	MG/KG	97		98		0		75 - 125	20	MS
Calcium		26421.0618		18242.1805		28068.6258		429.0556	437.6368	MG/KG	-1906		376		42	*		20	P
Chromium	52	21.1914		36.6083		23.7482		10.9409	10.7264	MG/KG	141	N	24	N	43	*	75 - 125	20	MS
Cobalt	59	7.1721		58.2276		60.6256		54.7046	53.6320	MG/KG	93		100		4		75 - 125	20	MS
Copper	63	11.1470		21.9912		23.7268		10.9409	10.7264	MG/KG	99		117		8		75 - 125	20	MS
Iron		23757.9609		18283.3001		25846.8370		107.2639	109.4092	MG/KG	-5104		1909		34	*		20	P
Lead	208	6.7834		10.0066		12.3675		3.2823	3.2179	MG/KG	98		174	N	21	*	75 - 125	20	MS
Lithium		24.2412		133.7667		145.2702		107.2639	109.4092	MG/KG	102		111		8		82 - 114	20	P
Magnesium		5991.5592		4905.4801		7050.1477		214.5278	218.8184	MG/KG	-506		484		36	*		20	P
Manganese		272.1440		287.2667		357.9300		53.6320	54.7046	MG/KG	28		157		22	*		20	P
Mercury		0.0790	B	0.2041		0.1836		0.1744	0.1700	MG/KG	72		62	N	11		65 - 135	20	CV
Molybdenum	98	0.3459		10.8337		10.8744		10.9409	10.7264	MG/KG	96		98		0		75 - 125	20	MS
Nickel	60	13.6538		27.8337		20.0584		10.9409	10.7264	MG/KG	130	N	60	N	32	*	75 - 125	20	MS
Phosphorus		527.3198		485.2748		597.9847		107.2639	109.4092	MG/KG	-39		65		21	*		20	P
Potassium		3605.4910		4078.3413		5589.6039		1072.6391	1094.0919	MG/KG	44	N	181	N	31	*	75 - 125	20	P
Selenium	78	0.1659	B	2.2560		2.2161		2.1882	2.1453	MG/KG	96		96		2		75 - 125	20	MS
Silver	107	0.0238	B	10.9322		10.7886		10.9409	10.7264	MG/KG	100		100		1		75 - 125	20	MS
Sodium		226.7023		1233.7989		1305.7144		1072.6391	1094.0919	MG/KG	94		99		6		75 - 125	20	P
Strontium		57.9825		144.9586		162.2429		107.2639	109.4092	MG/KG	81		95		11		75 - 115	20	P
Thallium	203	0.2626		0.6786		0.6389		0.4376	0.4291	MG/KG	95		88		6		75 - 125	20	MS
Tin		2.9638	B	394.3214		390.8042		429.0556	437.6368	MG/KG	91		89		1		80 - 110	20	P
Titanium		1131.9962		1123.2076		1524.6488		107.2639	109.4092	MG/KG	-8		359		30	*		20	P
Vanadium	51	44.7409		53.2604		44.0855		10.9409	10.7264	MG/KG	78		-6		19			20	MS
Zinc	66	55.2782		62.7790		54.7260		10.9409	10.7264	MG/KG	69		-5		14			20	MS
Zirconium		5.5495		115.1553		113.0700		107.2639	109.4092	MG/KG	102		98		2		75 - 125	20	P

22-DEC-23

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:
N = Matrix Spike OOS, * = Duplicate OOS

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE212
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6360506BKG
% Solids for Duplicate: 92.4
Batch ID(s): P21408G, P21426C, P21411D
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6360509DUP
% Solids for Sample: 91.4

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			17450.8103		17299.9292		1		P
Antimony	121		0.1294	B	0.0944	B	31		MS
Arsenic	75		4.4528		4.7593		7		MS
Barium	137		75.8641		78.3538		3		MS
Beryllium	9	0.1	0.5184		0.6034		15		MS
Boron		5.4	5.8128		5.8384		0		P
Cadmium	111	0.1	0.2018		0.4524		77	*	MS
Calcium			26421.0618		21653.7703		20		P
Chromium	52		21.1914		24.9327		16		MS
Cobalt	59		7.1721		7.8690		9		MS
Copper	63		11.1470		12.6010		12		MS
Iron			23757.9609		22331.5785		6		P
Lead	208		6.7834		7.0422		4		MS
Lithium			24.2412		24.2963		0		P
Magnesium			5991.5592		5753.8079		4		P
Manganese			272.1440		265.1017		3		P
Mercury			0.0790	B	0.0641	B	21		CV
Molybdenum	98	0.1	0.3459		0.3909		12		MS
Nickel	60		13.6538		15.7844		14		MS
Phosphorus			527.3198		465.1317		13		P
Potassium			3605.4910		3541.0950		2		P
Selenium	78		0.1659	B	0.2059	B	22		MS
Silver	107		0.0238	B	0.0382	B	46		MS
Sodium		108.3	226.7023		197.0084		14		P
Strontium			57.9825		46.8100		21	*	P
Thallium	203	0.1	0.2626		0.2851		8		MS
Tin			2.9638	B	2.7878	B	6		P
Titanium			1131.9962		1105.6324		2		P
Vanadium	51		44.7409		51.1488		13		MS
Zinc	66		55.2782		58.9337		6		MS
Zirconium		5.4	5.5495		7.3958		29		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.

cd difference 0.2506 mg/kg (≤ 0.212)

DE212 2938

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

SAMPLE DELIVERY GROUP

DE213

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-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	3050B	6010B	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	3050B	6020	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	3060A	7199	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	3550B	8082	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	3550B	8270C	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	3550B	8270C SIM	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	METHOD	300.0	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	METHOD	314.0	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	METHOD	7471A	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	3050B	6010B	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	3050B	6020	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	3060A	7199	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	3550B	8082	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	3550B	8270C	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	3550B	8270C SIM	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	METHOD	300.0	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	METHOD	314.0	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	METHOD	7471A	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	3050B	6010B	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	3050B	6020	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	3060A	7199	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	3550B	8082	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	3550B	8270C	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	3550B	8270C SIM	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	METHOD	300.0	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	METHOD	7471A	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	3050B	6010B	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	3050B	6020	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	3060A	7199	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	3550B	8082	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	3550B	8270C	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	3550B	8270C SIM	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	METHOD	300.0	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	METHOD	314.0	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	METHOD	7471A	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3050B	6010B	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3050B	6020	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3060A	7199	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3550B	8015B	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3550B	8015M	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3550B	8082	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3550B	8270C	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3550B	8270C SIM	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	5035	8015M	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	METHOD	300.0	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	METHOD	314.0	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	METHOD	7471A	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	METHOD	8015B	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	METHOD	8015M	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	3050B	6010B	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	3050B	6020	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	3060A	7199	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	3550B	8082	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	3550B	8270C	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	3550B	8270C SIM	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	METHOD	300.0	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	METHOD	314.0	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	METHOD	7471A	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	3050B	6010B	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	3050B	6020	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	3060A	7199	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	3550B	8082	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	3550B	8270C	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	3550B	8270C SIM	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	METHOD	300.0	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	METHOD	314.0	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	METHOD	7471A	III
01-Aug-2011	TB-080111	6361780	TB	5030B	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3050B	6010B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3050B	6020	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3060A	7199	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3546	1625C	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3550B	8015B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3550B	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3550B	8082	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3550B	8270C	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	5035	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	8330	8330A	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	METHOD	300.0	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	METHOD	314.0	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	METHOD	7471A	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	METHOD	8015B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	METHOD	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	METHOD	8315A	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	METHOD	9012B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3050B	6010B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3050B	6020	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3060A	7199	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3546	1625C	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3550B	8015B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3550B	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3550B	8082	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3550B	8270C	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3550B	8270C SIM	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	5035	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	8330	8330A	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	METHOD	300.0	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	METHOD	314.0	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	METHOD	7471A	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	METHOD	8015B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	METHOD	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	METHOD	8315A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	METHOD	9012B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0DU	6361775	DUP	3050B	6010B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0DU	6361775	DUP	3050B	6020	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0DU	6361775	DUP	3060A	7199	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0DU	6361775	DUP	METHOD	300.0	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0DU	6361775	DUP	METHOD	314.0	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0DU	6361775	DUP	METHOD	7471A	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0DU	6361775	DUP	METHOD	9012B	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3050B	6010B	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3050B	6020	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3060A	7199	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3546	1625C	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3550B	8015B	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3550B	8015M	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3550B	8082	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3550B	8270C	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3550B	8270C SIM	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	5035	8015M	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	8330	8330A	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	METHOD	300.0	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	METHOD	314.0	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	METHOD	7471A	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	METHOD	8015B	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	METHOD	8015M	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	METHOD	8315A	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	METHOD	9012B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Aug-2011	DUP22-SA5DN-QC-080111	P361781	FD	METHOD	8015B	III
01-Aug-2011	DUP22-SA5DN-QC-080111MSD	P361781M240123A	MSD	METHOD	8315A	III
01-Aug-2011	DUP22-SA5DN-QC-080111MSD	P361781M322139A	MSD	METHOD	8015B	III
01-Aug-2011	DUP22-SA5DN-QC-080111MS	P361781R240104A	MS	METHOD	8315A	III
01-Aug-2011	DUP22-SA5DN-QC-080111MS	P361781R322124A	MS	METHOD	8015B	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3050B	6010B	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3050B	6020	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3060A	7199	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3546	1625C	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3550B	8015B	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3550B	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3550B	8082	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3550B	8270C	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3550B	8270C SIM	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	5035	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	8330	8330A	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	METHOD	300.0	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	METHOD	314.0	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	METHOD	7471A	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	METHOD	8015B	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	METHOD	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	METHOD	8315A	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	METHOD	9012B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: DUP22-SA5DN-QC-080111 *Collected:* 8/1/2011 2:52:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.4		0.88	MDL	1.1	PQL	mg/Kg	J	FD
Nitrate-NO3	1.5	J	0.88	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.87	MDL	1.1	PQL	mg/Kg	J	FD

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: DUP22-SA5DN-QC-080111 *Collected:* 8/1/2011 2:52:00 PM *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	19500		2.73	MDL	21.8	PQL	mg/Kg	J	E, A
MAGNESIUM	5670		0.480	MDL	10.9	PQL	mg/Kg	J	A
POTASSIUM	3240		12.3	MDL	54.5	PQL	mg/Kg	J	Q, A

Sample ID: DUP22-SA5DN-QC-080111 *Collected:* 8/1/2011 2:52:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	323		0.382	MDL	10.9	PQL	mg/Kg	J	Q
TIN	2.59	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.69	J	0.502	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-127-SA6-SB-2.0-3.0 *Collected:* 8/1/2011 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
CALCIUM	2660		2.52	MDL	20.2	PQL	mg/Kg	J	E, A
MAGNESIUM	4500		0.443	MDL	10.1	PQL	mg/Kg	J	A
POTASSIUM	2880		11.4	MDL	50.4	PQL	mg/Kg	J	Q, A
SODIUM	94.1	J	6.00	MDL	101	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-127-SA6-SB-2.0-3.0 **Collected: 8/1/2011 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
PHOSPHORUS	319		0.353	MDL	10.1	PQL	mg/Kg	J	Q
TIN	2.53	J	0.322	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.25	J	0.463	MDL	5.04	PQL	mg/Kg	J	Z

Sample ID: SL-170-SA5DN-SB-4.0-5.0 **Collected: 8/1/2011 12:01:00** **Analysis Type: REA** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	5740		2.65	MDL	21.2	PQL	mg/Kg	J	E, A
MAGNESIUM	5100		0.466	MDL	10.6	PQL	mg/Kg	J	A
POTASSIUM	3370		12.0	MDL	53.0	PQL	mg/Kg	J	Q, A

Sample ID: SL-170-SA5DN-SB-4.0-5.0 **Collected: 8/1/2011 12:01:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	416		0.371	MDL	10.6	PQL	mg/Kg	J	Q
TIN	2.59	J	0.339	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.55	J	0.488	MDL	5.30	PQL	mg/Kg	J	Z

Sample ID: SL-170-SA5DN-SB-9.0-10.0 **Collected: 8/1/2011 12:02:00** **Analysis Type: REA** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	34200		2.84	MDL	22.7	PQL	mg/Kg	J	E, A
MAGNESIUM	6560		0.499	MDL	11.3	PQL	mg/Kg	J	A
POTASSIUM	3690		12.8	MDL	56.7	PQL	mg/Kg	J	Q, A

Sample ID: SL-170-SA5DN-SB-9.0-10.0 **Collected: 8/1/2011 12:02:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	292		0.397	MDL	11.3	PQL	mg/Kg	J	Q
TIN	2.83	J	0.363	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	2.66	J	0.522	MDL	5.67	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-173-SA5DN-SB-4.0-5.0 **Collected:** 8/1/2011 10:03:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	38600		2.78	MDL	22.2	PQL	mg/Kg	J	E, A
MAGNESIUM	6220		0.489	MDL	11.1	PQL	mg/Kg	J	A
POTASSIUM	3170		12.5	MDL	55.5	PQL	mg/Kg	J	Q, A

Sample ID: SL-173-SA5DN-SB-4.0-5.0 **Collected:** 8/1/2011 10:03:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	283		0.389	MDL	11.1	PQL	mg/Kg	J	Q
TIN	2.54	J	0.355	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.87	J	0.511	MDL	5.55	PQL	mg/Kg	J	Z

Sample ID: SL-173-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 10:05:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	22100		2.83	MDL	22.7	PQL	mg/Kg	J	E, A
MAGNESIUM	5670		0.498	MDL	11.3	PQL	mg/Kg	J	A
POTASSIUM	2470		12.8	MDL	56.6	PQL	mg/Kg	J	Q, A

Sample ID: SL-173-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 10:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	201		0.396	MDL	11.3	PQL	mg/Kg	J	Q
TIN	2.78	J	0.363	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	2.38	J	0.521	MDL	5.66	PQL	mg/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-4.0-5.0 **Collected:** 8/1/2011 2:45:00 PM **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	18700		2.73	MDL	21.8	PQL	mg/Kg	J	E, A
MAGNESIUM	4810		0.480	MDL	10.9	PQL	mg/Kg	J	A
POTASSIUM	2960		12.3	MDL	54.5	PQL	mg/Kg	J	Q, A
SODIUM	98.8	J	6.49	MDL	109	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: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-175-SA5DN-SB-4.0-5.0 **Collected: 8/1/2011 2:45:00 PM** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	334		0.382	MDL	10.9	PQL	mg/Kg	J	Q
TIN	2.85	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.03	J	0.502	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-9.0-10.0 **Collected: 8/1/2011 2:53:00 PM** **Analysis Type: REA** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	16300		2.79	MDL	22.3	PQL	mg/Kg	J	E, A
MAGNESIUM	5930		0.491	MDL	11.2	PQL	mg/Kg	J	A
POTASSIUM	2540		12.6	MDL	55.8	PQL	mg/Kg	J	Q, A

Sample ID: SL-175-SA5DN-SB-9.0-10.0 **Collected: 8/1/2011 2:53:00 PM** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	183		0.391	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.63	J	0.357	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	2.62	J	0.513	MDL	5.58	PQL	mg/Kg	J	Z

Sample ID: SL-176-SA5DN-SB-4.0-5.0 **Collected: 8/1/2011 8:21:00 AM** **Analysis Type: REA** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	15100		2.68	MDL	21.4	PQL	mg/Kg	J	E, A
MAGNESIUM	5320		0.471	MDL	10.7	PQL	mg/Kg	J	A
POTASSIUM	3350		12.1	MDL	53.5	PQL	mg/Kg	J	Q, A

Sample ID: SL-176-SA5DN-SB-4.0-5.0 **Collected: 8/1/2011 8:21:00 AM** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	422		0.375	MDL	10.7	PQL	mg/Kg	J	Q
TIN	2.37	J	0.343	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.81	J	0.492	MDL	5.35	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: DE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-176-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 8:23:00 AM **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	13400		2.75	MDL	22.0	PQL	mg/Kg	J	E, A
MAGNESIUM	5750		0.484	MDL	11.0	PQL	mg/Kg	J	A
POTASSIUM	2850		12.4	MDL	54.9	PQL	mg/Kg	J	Q, A

Sample ID: SL-176-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 8:23:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	186		0.385	MDL	11.0	PQL	mg/Kg	J	Q
TIN	3.01	J	0.352	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	2.01	J	0.505	MDL	5.49	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP22-SA5DN-QC-080111 **Collected:** 8/1/2011 2:52:00 PM **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.127	J	0.0620	MDL	0.428	PQL	mg/Kg	J	Z

Sample ID: DUP22-SA5DN-QC-080111 **Collected:** 8/1/2011 2:52:00 PM **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.563		0.0535	MDL	0.107	PQL	mg/Kg	J	Q, E

Sample ID: DUP22-SA5DN-QC-080111 **Collected:** 8/1/2011 2:52:00 PM **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.184	J	0.0791	MDL	0.214	PQL	mg/Kg	J	Z, Q
ARSENIC	7.30		0.0855	MDL	0.428	PQL	mg/Kg	J	Q
CADMIUM	0.504		0.0470	MDL	0.107	PQL	mg/Kg	J	Q
COPPER	17.1		0.0855	MDL	0.428	PQL	mg/Kg	J	Q
LEAD	10.9		0.0109	MDL	0.214	PQL	mg/Kg	J	Q, E
NICKEL	23.0		0.107	MDL	0.428	PQL	mg/Kg	J	Q
SILVER	0.126		0.0152	MDL	0.107	PQL	mg/Kg	J	Q, FD
THALLIUM	0.394		0.0321	MDL	0.107	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: DE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-127-SA6-SB-2.0-3.0 ***Collected:*** 8/1/2011 10:15:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0590	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-127-SA6-SB-2.0-3.0 ***Collected:*** 8/1/2011 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
MOLYBDENUM	0.667		0.0509	MDL	0.102	PQL	mg/Kg	J	Q, E

Sample ID: SL-127-SA6-SB-2.0-3.0 ***Collected:*** 8/1/2011 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	0.0954	J	0.0753	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	10.1		0.0814	MDL	0.407	PQL	mg/Kg	J	Q
CADMIUM	0.772		0.0448	MDL	0.102	PQL	mg/Kg	J	Q
COPPER	9.48		0.0814	MDL	0.407	PQL	mg/Kg	J	Q
LEAD	17.0		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, E
NICKEL	11.8		0.102	MDL	0.407	PQL	mg/Kg	J	Q
SILVER	0.0639	J	0.0144	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.241		0.0305	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-170-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 12:01:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0633	MDL	0.437	PQL	mg/Kg	J	Z

Sample ID: SL-170-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 12:01:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.572		0.0546	MDL	0.109	PQL	mg/Kg	J	Q, E

Sample ID: SL-170-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 12:01:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0834	J	0.0808	MDL	0.218	PQL	mg/Kg	J	Z, Q
ARSENIC	5.60		0.0873	MDL	0.437	PQL	mg/Kg	J	Q
CADMIUM	0.319		0.0480	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: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-170-SA5DN-SB-4.0-5.0** ***Collected:*** **8/1/2011 12:01:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	14.1		0.0873	MDL	0.437	PQL	mg/Kg	J	Q
LEAD	8.64		0.0111	MDL	0.218	PQL	mg/Kg	J	Q, E
NICKEL	15.2		0.109	MDL	0.437	PQL	mg/Kg	J	Q
SILVER	0.0484	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.250		0.0327	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: **SL-170-SA5DN-SB-9.0-10.0** ***Collected:*** **8/1/2011 12:02:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.109	J	0.0658	MDL	0.454	PQL	mg/Kg	J	Z

Sample ID: **SL-170-SA5DN-SB-9.0-10.0** ***Collected:*** **8/1/2011 12:02:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.529		0.0567	MDL	0.113	PQL	mg/Kg	J	Q, E

Sample ID: **SL-170-SA5DN-SB-9.0-10.0** ***Collected:*** **8/1/2011 12:02:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.202	J	0.0840	MDL	0.227	PQL	mg/Kg	J	Z, Q
ARSENIC	7.70		0.0908	MDL	0.454	PQL	mg/Kg	J	Q
CADMIUM	0.393		0.0499	MDL	0.113	PQL	mg/Kg	J	Q
COPPER	17.0		0.0908	MDL	0.454	PQL	mg/Kg	J	Q
LEAD	10.6		0.0116	MDL	0.227	PQL	mg/Kg	J	Q, E
NICKEL	27.1		0.113	MDL	0.454	PQL	mg/Kg	J	Q
SILVER	0.0559	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.388		0.0340	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: **SL-173-SA5DN-SB-4.0-5.0** ***Collected:*** **8/1/2011 10:03:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0963	J	0.0644	MDL	0.444	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: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-173-SA5DN-SB-4.0-5.0** ***Collected:*** **8/1/2011 10:03:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.494		0.0555	MDL	0.111	PQL	mg/Kg	J	Q, E

Sample ID: **SL-173-SA5DN-SB-4.0-5.0** ***Collected:*** **8/1/2011 10:03:00** ***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	0.0822	MDL	0.222	PQL	mg/Kg	J	Z, Q
ARSENIC	8.38		0.0888	MDL	0.444	PQL	mg/Kg	J	Q
CADMIUM	0.408		0.0489	MDL	0.111	PQL	mg/Kg	J	Q
COPPER	16.4		0.0888	MDL	0.444	PQL	mg/Kg	J	Q
LEAD	9.81		0.0113	MDL	0.222	PQL	mg/Kg	J	Q, E
NICKEL	22.8		0.111	MDL	0.444	PQL	mg/Kg	J	Q
SILVER	0.0398	J	0.0158	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.323		0.0333	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: **SL-173-SA5DN-SB-9.0-10.0** ***Collected:*** **8/1/2011 10:05:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0869	J	0.0657	MDL	0.453	PQL	mg/Kg	J	Z

Sample ID: **SL-173-SA5DN-SB-9.0-10.0** ***Collected:*** **8/1/2011 10:05:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.562		0.0566	MDL	0.113	PQL	mg/Kg	J	Q, E

Sample ID: **SL-173-SA5DN-SB-9.0-10.0** ***Collected:*** **8/1/2011 10:05:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.140	J	0.0838	MDL	0.227	PQL	mg/Kg	J	Z, Q
ARSENIC	9.02		0.0906	MDL	0.453	PQL	mg/Kg	J	Q
CADMIUM	0.122		0.0498	MDL	0.113	PQL	mg/Kg	J	Q
COPPER	31.2		0.0906	MDL	0.453	PQL	mg/Kg	J	Q
LEAD	9.66		0.0116	MDL	0.227	PQL	mg/Kg	J	Q, E
NICKEL	22.8		0.113	MDL	0.453	PQL	mg/Kg	J	Q
SILVER	0.0429	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.398		0.0340	MDL	0.113	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-175-SA5DN-SB-4.0-5.0** ***Collected:*** **8/1/2011 2:45:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0614	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: **SL-175-SA5DN-SB-4.0-5.0** ***Collected:*** **8/1/2011 2:45:00 PM** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.561		0.0529	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: **SL-175-SA5DN-SB-4.0-5.0** ***Collected:*** **8/1/2011 2:45:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.163	J	0.0784	MDL	0.212	PQL	mg/Kg	J	Z, Q
ARSENIC	5.66		0.0847	MDL	0.424	PQL	mg/Kg	J	Q
CADMIUM	0.311		0.0466	MDL	0.106	PQL	mg/Kg	J	Q
COPPER	13.7		0.0847	MDL	0.424	PQL	mg/Kg	J	Q
LEAD	9.31		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, E
NICKEL	19.2		0.106	MDL	0.424	PQL	mg/Kg	J	Q
SILVER	0.0517	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, Q, FD
THALLIUM	0.341		0.0318	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: **SL-175-SA5DN-SB-9.0-10.0** ***Collected:*** **8/1/2011 2:53:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.102	J	0.0641	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: **SL-175-SA5DN-SB-9.0-10.0** ***Collected:*** **8/1/2011 2:53:00 PM** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.646		0.0553	MDL	0.111	PQL	mg/Kg	J	Q, E

Sample ID: **SL-175-SA5DN-SB-9.0-10.0** ***Collected:*** **8/1/2011 2:53:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.223		0.0818	MDL	0.221	PQL	mg/Kg	J	Q
ARSENIC	9.80		0.0884	MDL	0.442	PQL	mg/Kg	J	Q
CADMIUM	0.190		0.0486	MDL	0.111	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: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-175-SA5DN-SB-9.0-10.0 ***Collected:*** 8/1/2011 2:53:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	19.8		0.0884	MDL	0.442	PQL	mg/Kg	J	Q
LEAD	11.6		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, E
NICKEL	26.6		0.111	MDL	0.442	PQL	mg/Kg	J	Q
SILVER	0.0771	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.412		0.0332	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-176-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 8:21:00 AM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.113	J	0.0627	MDL	0.432	PQL	mg/Kg	J	Z

Sample ID: SL-176-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 8:21:00 AM ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.590		0.0540	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: SL-176-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 8:21:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.170	J	0.0800	MDL	0.216	PQL	mg/Kg	J	Z, Q
ARSENIC	5.94		0.0865	MDL	0.432	PQL	mg/Kg	J	Q
CADMIUM	0.251		0.0476	MDL	0.108	PQL	mg/Kg	J	Q
COPPER	15.5		0.0865	MDL	0.432	PQL	mg/Kg	J	Q
LEAD	9.16		0.0110	MDL	0.216	PQL	mg/Kg	J	Q, E
NICKEL	17.8		0.108	MDL	0.432	PQL	mg/Kg	J	Q
SILVER	0.0576	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.318		0.0324	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-176-SA5DN-SB-9.0-10.0 ***Collected:*** 8/1/2011 8:23:00 AM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.105	J	0.0656	MDL	0.453	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: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-176-SA5DN-SB-9.0-10.0 *Collected:* 8/1/2011 8:23:00 AM *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.575		0.0566	MDL	0.113	PQL	mg/Kg	J	Q, E

Sample ID: SL-176-SA5DN-SB-9.0-10.0 *Collected:* 8/1/2011 8:23:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.155	J	0.0837	MDL	0.226	PQL	mg/Kg	J	Z, Q
ARSENIC	8.96		0.0905	MDL	0.453	PQL	mg/Kg	J	Q
CADMIUM	0.121		0.0498	MDL	0.113	PQL	mg/Kg	J	Q
COPPER	17.6		0.0905	MDL	0.453	PQL	mg/Kg	J	Q
LEAD	11.6		0.0115	MDL	0.226	PQL	mg/Kg	J	Q, E
NICKEL	22.8		0.113	MDL	0.453	PQL	mg/Kg	J	Q
SILVER	0.0638	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.404		0.0339	MDL	0.113	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: DUP22-SA5DN-QC-080111 *Collected:* 8/1/2011 2:52:00 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	0.50	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-127-SA6-SB-2.0-3.0 *Collected:* 8/1/2011 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
HEXAVALENT CHROMIUM	0.64	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-170-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 12:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: DE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS **Method:** 7199 **Matrix:** SO

Sample ID: SL-170-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 12:02:00 **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	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-4.0-5.0 **Collected:** 8/1/2011 2:45:00 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	0.60	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 2:53:00 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	0.61	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-176-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 8:23:00 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	0.52	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

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

Sample ID: DUP22-SA5DN-QC-080111 **Collected:** 8/1/2011 2:52:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0074	U	0.0074	MDL	0.105	PQL	mg/Kg	UJ	FD

Sample ID: SL-127-SA6-SB-2.0-3.0 **Collected:** 8/1/2011 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	0.0375	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-173-SA5DN-SB-4.0-5.0 **Collected:** 8/1/2011 10:03:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0113	J	0.0077	MDL	0.110	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: DE213 **Laboratory:** LL

EDD Filename: PrepDE213_v1 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0142	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z, FD

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

Sample ID: DUP22-SA5DN-QC-080111 *Collected:* 8/1/2011 2:52:00 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	156		18.4	MDL	36.7	PQL	ng/Kg	J	FD

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	370		184	MDL	367	PQL	ng/Kg	J	FD

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

Sample ID: DUP22-SA5DN-QC-080111 *Collected:* 8/1/2011 2:52:00 PM *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	6.0		0.88	MDL	2.6	PQL	mg/Kg	J	FD
EFH (C30-C40)	22		0.88	MDL	2.6	PQL	mg/Kg	J	FD

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.5	U	5.5	MDL	11	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.5	U	5.5	MDL	11	PQL	mg/Kg	UJ	Q
Propylene glycol	5.5	U	5.5	MDL	11	PQL	mg/Kg	UJ	Q

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* REA2 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	17		2.2	MDL	6.6	PQL	mg/Kg	J	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: PrepDE213_v1 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* REA2 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	76		2.2	MDL	6.6	PQL	mg/Kg	J	FD

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

Sample ID: DUP22-SA5DN-QC-080111 *Collected:* 8/1/2011 2:52:00 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	0.92	J	0.43	MDL	1.9	PQL	ug/Kg	J	Z, FD
Aroclor 5460	1.7	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z, FD

Sample ID: SL-170-SA5DN-SB-9.0-10.0 *Collected:* 8/1/2011 12:02:00 *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	0.89	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-173-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 10:03:00 *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	0.65	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-173-SA5DN-SB-9.0-10.0 *Collected:* 8/1/2011 10:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.67	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 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	2.7		0.43	MDL	1.9	PQL	ug/Kg	J	FD
Aroclor 5460	3.7		1.1	MDL	3.6	PQL	ug/Kg	J	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: PrepDE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: **SL-176-SA5DN-SB-4.0-5.0** ***Collected:*** **8/1/2011 8:21:00 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
AROCLOR 1260	1.3	J	0.43	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	1.3	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: **SL-176-SA5DN-SB-9.0-10.0** ***Collected:*** **8/1/2011 8:23:00 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
AROCLOR 1254	0.91	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: **DUP22-SA5DN-QC-080111** ***Collected:*** **8/1/2011 2:52:00 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	30	J	18	MDL	370	PQL	ug/Kg	J	Z

Sample ID: **SL-127-SA6-SB-2.0-3.0** ***Collected:*** **8/1/2011 10:15:00** ***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(A)ANTHRACENE	66	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	68	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	88	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	58	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	39	J	17	MDL	170	PQL	ug/Kg	J	Z
CHRYSENE	77	J	17	MDL	170	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	17	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	93	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	45	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	32	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	96	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: **SL-170-SA5DN-SB-4.0-5.0** ***Collected:*** **8/1/2011 12:01:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	25	J	18	MDL	180	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: DE213 **Laboratory: LL**

EDD Filename: PrepDE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-170-SA5DN-SB-4.0-5.0 **Collected: 8/1/2011 12:01:00** **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	42	J	18	MDL	370	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	20	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-4.0-5.0 **Collected: 8/1/2011 2:45:00 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-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
BENZIDINE	1300	U	1300	MDL	3700	PQL	ug/Kg	UJ	Q

Method Category: SVOA

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

Sample ID: DUP22-SA5DN-QC-080111 **Collected: 8/1/2011 2:52:00 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
2-METHYLNAPHTHALENE	0.90	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(G,H,I)PERYLENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
CHRYSENE	3.6		0.37	MDL	1.8	PQL	ug/Kg	J	FD
FLUORANTHENE	1.0	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	2.8		0.73	MDL	1.8	PQL	ug/Kg	J	FD
PYRENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-127-SA6-SB-2.0-3.0 **Collected: 8/1/2011 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
ANTHRACENE	2.2	J	1.7	MDL	8.6	PQL	ug/Kg	J	Z

Sample ID: SL-170-SA5DN-SB-4.0-5.0 **Collected: 8/1/2011 12:01:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	0.81	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: PrepDE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-170-SA5DN-SB-9.0-10.0 **Collected: 8/1/2011 12:02:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.1	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	0.75	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-173-SA5DN-SB-4.0-5.0 **Collected: 8/1/2011 10:03:00** **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	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.8	J	6.9	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	0.78	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-173-SA5DN-SB-9.0-10.0 **Collected: 8/1/2011 10:05:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-4.0-5.0 **Collected: 8/1/2011 2:45:00 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
2-METHYLNAPHTHALENE	0.81	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.83	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(G,H,I)PERYLENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.0	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	0.86	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
PYRENE	0.87	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-9.0-10.0 **Collected: 8/1/2011 2:53:00 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	10	J	6.9	MDL	21	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: PrepDE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-176-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 8:21:00 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
NAPHTHALENE	1.4	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-176-SA5DN-SB-9.0-10.0 *Collected:* 8/1/2011 8:23:00 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
BENZO(B)FLUORANTHENE	0.83	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.2	J	6.9	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	0.47	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8330A **Matrix:** SO

Sample ID: DUP22-SA5DN-QC-080111 *Collected:* 8/1/2011 2:52:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitroglycerin	880	U	880	MDL	2600	PQL	ug/Kg	UJ	L

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitroglycerin	880	U	880	MDL	2600	PQL	ug/Kg	UJ	L

Sample ID: SL-175-SA5DN-SB-9.0-10.0 *Collected:* 8/1/2011 2:53:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitroglycerin	920	U	920	MDL	2800	PQL	ug/Kg	UJ	L

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.7	U	1.7	MDL	3.9	PQL	mg/Kg	UJ	Q
p-Terphenyl	1.7	U	1.7	MDL	3.9	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: DE213 **Laboratory: LL**

EDD Filename: PrepDE213_v1 **eQAPP Name: CDM_SSFL_110509**

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

* 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: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_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

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE213

Method Blank Outlier Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21708BB220925	8/12/2011 9:25:00 AM	BORON	0.499 mg/Kg	DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0
P21708BB221518	8/11/2011 3:18:00 PM	CALCIUM	7.85 mg/Kg	DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0
P21708BB221539	8/8/2011 3:39:00 PM	IRON PHOSPHORUS STRONTIUM TIN	3.78 mg/Kg 0.944 mg/Kg 0.0480 mg/Kg 1.71 mg/Kg	DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-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
DUP22-SA5DN-QC-080111(RES)	TIN	2.59 mg/Kg	2.59U mg/Kg
SL-127-SA6-SB-2.0-3.0(RES)	TIN	2.53 mg/Kg	2.53U mg/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	TIN	2.59 mg/Kg	2.59U mg/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	TIN	2.83 mg/Kg	2.83U mg/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	TIN	2.54 mg/Kg	2.54U mg/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	TIN	2.85 mg/Kg	2.85U mg/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	TIN	2.63 mg/Kg	2.63U mg/Kg
SL-176-SA5DN-SB-4.0-5.0(RES)	TIN	2.37 mg/Kg	2.37U mg/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	TIN	3.01 mg/Kg	3.01U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_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-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (SL-175-SA5DN-SB-4.0-5.0)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	36 55 57	49 - -	59.00-109.00 63.00-107.00 63.00-107.00	31 (20.00) 28 (20.00) 26 (20.00)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J (all detects) UJ (all non-detects)
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (SL-175-SA5DN-SB-4.0-5.0)	EFH (C21-C30)	578	601	49.00-123.00	-	EFH (C21-C30)	No Qual, Diluted Out
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (SL-175-SA5DN-SB-4.0-5.0)	EFH (C12-C14) EFH (C15-C20) EFH (C30-C40) EFH (C8-C11)	0 0 -325 0	0 0 -314 0	49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00	- - - -	EFH (C12-C14) EFH (C15-C20) EFH (C30-C40) EFH (C8-C11)	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-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (SL-175-SA5DN-SB-4.0-5.0)	m-Terphenyl p-Terphenyl	70 74	73 -	75.00-125.00 75.00-125.00	- -	m-Terphenyl p-Terphenyl	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-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	ARSENIC CADMIUM COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	139 130 128 159 - - - - 174	143 138 137 165 134 131 132 130 180	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - - - -	ARSENIC CADMIUM COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	J(all detects) V, Zn, No Qual, >4x
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	ANTIMONY	42	44	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_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-175-SA5DN-SB-4.0-5.0MSD (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	MOLYBDENUM	-	127	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	BARIUM	218	304	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-175-SA5DN-SB-4.0-5.0MS	ALUMINUM	831	950	75.00-125.00	-	ALUMINUM	
SL-175-SA5DN-SB-4.0-5.0MSD	MAGNESIUM	171	256	75.00-125.00	-	MAGNESIUM	
	POTASSIUM	-	163	75.00-125.00	-	POTASSIUM	
(DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	TITANIUM	132	194	75.00-125.00	-	TITANIUM	J(all detects) Al, Mg, Ti No Qual, >4x
SL-175-SA5DN-SB-4.0-5.0MS	CALCIUM	-790	139	75.00-125.00	23 (20.00)	CALCIUM	
SL-175-SA5DN-SB-4.0-5.0MSD (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	IRON	-1590	-1481	75.00-125.00	-	IRON	J(all detects) UJ(all non-detects) No Qual %R, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_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-175-SA5DN-SB-4.0-5.0MS (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	PHOSPHORUS	65	-	75.00-125.00	-	PHOSPHORUS	J(all detects) UJ(all non-detects)

Method: 1625C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (SL-175-SA5DN-SB-4.0-5.0)	N-NITROSODIMETHYLAMINE	54	53	70.00-130.00	-	N-NITROSODIMETHYLAMINE	No Qual, Diluted Out

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (SL-175-SA5DN-SB-4.0-5.0)	1,2-Diphenylhydrazine/Azobenzen 2-METHYLPHENOL BENZOIC ACID Di-n-octylphthalate	- 118 - 130	133 - - -	71.00-129.00 75.00-111.00 10.00-173.00 56.00-126.00	- - 91 (30.00) -	1,2-Diphenylhydrazine/Azobenz 2-METHYLPHENOL BENZOIC ACID Di-n-octylphthalate	J(all detects)
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (SL-175-SA5DN-SB-4.0-5.0)	1,3-DICHLOROBENZENE BENZIDINE	60 22	- 23	63.00-109.00 35.00-141.00	- -	1,3-DICHLOROBENZENE BENZIDINE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-175-SA5DN-SB-4.0-5.0DUP (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	FLUORIDE	47	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-175-SA5DN-SB-4.0-5.0DUP (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	LEAD MOLYBDENUM	48 23	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-175-SA5DN-SB-4.0-5.0DUP (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	HEXAVALENT CHROMIUM	45	20.00	No Qual, OK by Difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-175-SA5DN-SB-4.0-5.0DUP (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	MERCURY	43	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8330A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12186AQ241949A (DUP22-SA5DN-QC-080111 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0)	Nitroglycerin	79	-	80.00-120.00	-	Nitroglycerin	J (all detects) UJ (all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P21708BQ221522	ALUMINUM	152	-	80.00-120.00	-	ALUMINUM	
P21708BQ221543	IRON	132	-	80.00-120.00	-	IRON	
(DUP22-SA5DN-QC-080111	MAGNESIUM	125	-	80.00-120.00	-	MAGNESIUM	
SL-127-SA6-SB-2.0-3.0	TITANIUM	182	-	80.00-120.00	-	TITANIUM	
SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)							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
P3LDLCSQ261043	4-BROMOPHENYL-PHENYLETH	118	-	79.00-117.00	-	4-BROMOPHENYL-PHENYLET	
(DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)							J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
MOISTURE	9.2	9.2	0		No Qualifiers Applied

Method: 1625C
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
N-NITROSODIMETHYLAMINE	370	156	81	50.00	J(all detects)

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
Nitrate-NO3	2.3	1.5	42	50.00	No Qualifiers Applied
FLUORIDE	2.5	4.4	55	50.00	J(all detects)

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
ALUMINUM	20800	23400	12	50.00	No Qualifiers Applied
BORON	8.12	10.2	23	50.00	
CALCIUM	18700	19500	4	50.00	
IRON	23100	24200	5	50.00	
LITHIUM	23.5	24.2	3	50.00	
MAGNESIUM	4810	5670	16	50.00	
MANGANESE	317	317	0	50.00	
PHOSPHORUS	334	323	3	50.00	
POTASSIUM	2960	3240	9	50.00	
SODIUM	98.8	111	12	50.00	
STRONTIUM	32.3	35.7	10	50.00	
TIN	2.85	2.59	10	50.00	
TITANIUM	1260	1250	1	50.00	
Zirconium	2.03	2.69	28	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg) SL-175-SA5DN-SB-4.0-5.0	Concentration (mg/Kg) DUP22-SA5DN-QC-080111	Sample RPD	eQAPP RPD	Flag
ANTIMONY	0.163	0.184	12	50.00	
ARSENIC	5.66	7.30	25	50.00	
BARIUM	136	158	15	50.00	
BERYLLIUM	0.792	0.900	13	50.00	
CADMIUM	0.311	0.504	47	50.00	
CHROMIUM	27.1	33.8	22	50.00	
COBALT	8.30	9.84	17	50.00	
COPPER	13.7	17.1	22	50.00	No Qualifiers Applied
LEAD	9.31	10.9	16	50.00	
MOLYBDENUM	0.561	0.563	0	50.00	
NICKEL	19.2	23.0	18	50.00	
SELENIUM	0.132	0.127	4	50.00	
THALLIUM	0.341	0.394	14	50.00	
VANADIUM	49.7	63.6	25	50.00	
ZINC	75.9	83.3	9	50.00	
SILVER	0.0517	0.126	84	50.00	J(all detects)

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg) SL-175-SA5DN-SB-4.0-5.0	Concentration (mg/Kg) DUP22-SA5DN-QC-080111	Sample RPD	eQAPP RPD	Flag
HEXAVALENT CHROMIUM	0.60	0.50	18	50.00	No Qualifiers Applied

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg) SL-175-SA5DN-SB-4.0-5.0	Concentration (mg/Kg) DUP22-SA5DN-QC-080111	Sample RPD	eQAPP RPD	Flag
MERCURY	0.0142	0.105 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg) SL-175-SA5DN-SB-4.0-5.0	Concentration (mg/Kg) DUP22-SA5DN-QC-080111	Sample RPD	eQAPP RPD	Flag
EFH (C21-C30)	17	6.0	96	50.00	J(all detects)
EFH (C30-C40)	76	22	110	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg) SL-175-SA5DN-SB-4.0-5.0	Concentration (ug/Kg) DUP22-SA5DN-QC-080111	Sample RPD	eQAPP RPD	Flag
AROCLOR 1260	2.7	0.92	98	50.00	J(all detects)
Aroclor 5460	3.7	1.7	74	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
2-METHYLNAPHTHALENE	0.81	0.90	11	50.00	No Qualifiers Applied
BENZO(B)FLUORANTHENE	2.0	1.9	5	50.00	
FLUORANTHENE	0.86	1.0	15	50.00	
PYRENE	0.87	1.3	40	50.00	
BENZO(A)PYRENE	0.83	1.8 U	200	50.00	J(all detects) UJ(all non-detects)
BENZO(G,H,I)PERYLENE	1.4	1.8 U	200	50.00	
CHRYSENE	1.0	3.6	113	50.00	
PHENANTHRENE	1.5	2.8	60	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
PH	8.37	8.18	2	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	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
DUP22-SA5DN-QC-080111	TIN	J	2.59	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.69	5.45	PQL	mg/Kg	
SL-127-SA6-SB-2.0-3.0	SODIUM	J	94.1	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.53	10.1	PQL	mg/Kg	
	Zirconium	J	1.25	5.04	PQL	mg/Kg	
SL-170-SA5DN-SB-4.0-5.0	TIN	J	2.59	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.55	5.30	PQL	mg/Kg	
SL-170-SA5DN-SB-9.0-10.0	TIN	J	2.83	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.66	5.67	PQL	mg/Kg	
SL-173-SA5DN-SB-4.0-5.0	TIN	J	2.54	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.87	5.55	PQL	mg/Kg	
SL-173-SA5DN-SB-9.0-10.0	TIN	J	2.78	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.38	5.66	PQL	mg/Kg	
SL-175-SA5DN-SB-4.0-5.0	SODIUM	J	98.8	109	PQL	mg/Kg	J (all detects)
	TIN	J	2.85	10.9	PQL	mg/Kg	
	Zirconium	J	2.03	5.45	PQL	mg/Kg	
SL-175-SA5DN-SB-9.0-10.0	TIN	J	2.63	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.62	5.58	PQL	mg/Kg	
SL-176-SA5DN-SB-4.0-5.0	TIN	J	2.37	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.81	5.35	PQL	mg/Kg	
SL-176-SA5DN-SB-9.0-10.0	TIN	J	3.01	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.01	5.49	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	ANTIMONY	J	0.184	0.214	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.127	0.428	PQL	mg/Kg	
SL-127-SA6-SB-2.0-3.0	ANTIMONY	J	0.0954	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.132	0.407	PQL	mg/Kg	
	SILVER	J	0.0639	0.102	PQL	mg/Kg	
SL-170-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.0834	0.218	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.132	0.437	PQL	mg/Kg	
	SILVER	J	0.0484	0.109	PQL	mg/Kg	
SL-170-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.202	0.227	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.109	0.454	PQL	mg/Kg	
	SILVER	J	0.0559	0.113	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-173-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.154	0.222	PQL	mg/Kg	
	SELENIUM	J	0.0963	0.444	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0398	0.111	PQL	mg/Kg	
SL-173-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.140	0.227	PQL	mg/Kg	
	SELENIUM	J	0.0869	0.453	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0429	0.113	PQL	mg/Kg	
SL-175-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.163	0.212	PQL	mg/Kg	
	SELENIUM	J	0.132	0.424	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0517	0.106	PQL	mg/Kg	
SL-175-SA5DN-SB-9.0-10.0	SELENIUM	J	0.102	0.442	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0771	0.111	PQL	mg/Kg	
SL-176-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.170	0.216	PQL	mg/Kg	
	SELENIUM	J	0.113	0.432	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0576	0.108	PQL	mg/Kg	
SL-176-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.155	0.226	PQL	mg/Kg	
	SELENIUM	J	0.105	0.453	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0638	0.113	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-127-SA6-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.64	1.0	PQL	mg/Kg	J (all detects)
SL-170-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)
SL-170-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.47	1.2	PQL	mg/Kg	J (all detects)
SL-175-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.60	1.1	PQL	mg/Kg	J (all detects)
SL-175-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.61	1.1	PQL	mg/Kg	J (all detects)
SL-176-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.52	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-127-SA6-SB-2.0-3.0	MERCURY	J	0.0375	0.102	PQL	mg/Kg	J (all detects)
SL-173-SA5DN-SB-4.0-5.0	MERCURY	J	0.0113	0.110	PQL	mg/Kg	J (all detects)
SL-175-SA5DN-SB-4.0-5.0	MERCURY	J	0.0142	0.104	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	AROCLOR 1260	J	0.92	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.7	3.6	PQL	ug/Kg	
SL-170-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	0.89	2.0	PQL	ug/Kg	J (all detects)
SL-173-SA5DN-SB-4.0-5.0	AROCLOR 1254	J	0.65	1.9	PQL	ug/Kg	J (all detects)
SL-173-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	0.67	1.9	PQL	ug/Kg	J (all detects)
SL-176-SA5DN-SB-4.0-5.0	AROCLOR 1260	J	1.3	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.3	3.6	PQL	ug/Kg	
SL-176-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	0.91	1.9	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	BIS(2-ETHYLHEXYL)PHTHALATE	J	30	370	PQL	ug/Kg	J (all detects)
SL-127-SA6-SB-2.0-3.0	BENZO(A)ANTHRACENE	J	66	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	68	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	88	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	58	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	39	170	PQL	ug/Kg	
	CHRYSENE	J	77	170	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	17	170	PQL	ug/Kg	
	FLUORANTHENE	J	93	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	45	170	PQL	ug/Kg	
	PHENANTHRENE	J	32	170	PQL	ug/Kg	
	PYRENE	J	96	170	PQL	ug/Kg	
SL-170-SA5DN-SB-4.0-5.0	BENZO(G,H,I)PERYLENE	J	25	180	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	42	370	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	20	180	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	2-METHYLNAPHTHALENE	J	0.90	1.8	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	1.0	1.8	PQL	ug/Kg	
	PYRENE	J	1.3	1.8	PQL	ug/Kg	
SL-127-SA6-SB-2.0-3.0	ANTHRACENE	J	2.2	8.6	PQL	ug/Kg	J (all detects)
SL-170-SA5DN-SB-4.0-5.0	NAPHTHALENE	J	0.81	1.8	PQL	ug/Kg	J (all detects)
SL-170-SA5DN-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	1.1	1.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.75	1.9	PQL	ug/Kg	
SL-173-SA5DN-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	0.84	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.8	21	PQL	ug/Kg	
	CHRYSENE	J	0.78	1.9	PQL	ug/Kg	

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

Reporting Limit Outliers

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-173-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	21	PQL	ug/Kg	J (all detects)
SL-175-SA5DN-SB-4.0-5.0	2-METHYLNAPHTHALENE	J	0.81	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.83	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.4	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	20	PQL	ug/Kg	
	CHRYSENE	J	1.0	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	0.86	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.5	1.8	PQL	ug/Kg	
	PYRENE	J	0.87	1.8	PQL	ug/Kg	
SL-175-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	21	PQL	ug/Kg	J (all detects)
SL-176-SA5DN-SB-4.0-5.0	NAPHTHALENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
SL-176-SA5DN-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	0.83	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.2	21	PQL	ug/Kg	
	CHRYSENE	J	0.47	1.9	PQL	ug/Kg	

LDC #: 26533D4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/5/11
SDG #: DE213 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
2nd Reviewer: A

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: 8/1/11
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	No qual by MB/CCB.
V.	ICP Interference Check Sample (ICS) Analysis	N	RPD worst
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Ti, V, Zn >4X (No qual for %R)
VII.	Duplicate Sample Analysis	SW	Pb, Mo J/UJ (No <5XRL)
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ca, Mg, K, Fe J/UJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

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

Validated Samples: Soil

1	SL-170-SA5DN-SB-4.0-5.0	11	SL-175-SA5DN-SB-4.0-5.0MS	21	MB	31	
2	SL-170-SA5DN-SB-9.0-10.0	12	SL-175-SA5DN-SB-4.0-5.0MSD	22		32	
3	SL-173-SA5DN-SB-4.0-5.0	13	SL-175-SA5DN-SB-4.0-5.0DUP	23		33	
4	SL-173-SA5DN-SB-9.0-10.0	14		24		34	
5	SL-175-SA5DN-SB-4.0-5.0	15		25		35	
6	SL-175-SA5DN-SB-9.0-10.0	16		26		36	
7	SL-176-SA5DN-SB-4.0-5.0	17		27		37	
8	SL-176-SA5DN-SB-9.0-10.0	18		28		38	
9	SL-127-SA6-SB-2.0-3.0	19		29		39	
10	DUP22-SA5DN-QC-080111	20		30		40	

Notes:

SL-175-SA30N-SB-4.0-5.0 (VE213) & Acfr DE214

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE213
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6361772BKG Matrix Spike Lab Sample ID: 6361773MS Matrix Spike Duplicate Lab Sample ID: 6361774MSD
% Solids for Sample: 90.8
Batch Id(s): P21708B, P21726A, P21511B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		20794.5828		22588.3022		22845.2816		215.9454	215.9454	MG/KG	831		950		1			20	P
Antimony	121	0.1631	B	0.7081		0.7381		1.2957	1.2957	MG/KG	42	N	44	N	4		75 - 125	20	MS
Arsenic	75	5.6591		8.6637		8.7372		2.1595	2.1595	MG/KG	139	N	143	N	1		75 - 125	20	MS
Barium	137	136.1826		159.7564		168.9557		10.7973	10.7973	MG/KG	218		304		6			20	MS
Beryllium	9	0.7923		1.7263		1.7917		0.8638	0.8638	MG/KG	108		116		4		75 - 125	20	MS
Boron		8.1171		227.3484		224.5476		215.9454	215.9454	MG/KG	102		100		1		84 - 115	20	P
Cadmium	111	0.3111		1.7187		1.8044		1.0797	1.0797	MG/KG	130	N	138	N	5		75 - 125	20	MS
Calcium		18664.5058		15254.3254		19266.7412		431.8908	431.8908	MG/KG	-790		139		23	*		20	P
Chromium	52	27.0671		39.9283		38.9997		10.7973	10.7973	MG/KG	119		111		2		75 - 125	20	MS
Cobalt	59	8.3044		72.1474		76.0560		53.9864	53.9864	MG/KG	118		125		5		75 - 125	20	MS
Copper	63	13.6522		27.4899		28.4184		10.7973	10.7973	MG/KG	128	N	137	N	3		75 - 125	20	MS
Iron		23140.1012		21423.0673		21541.5544		107.9727	107.9727	MG/KG	-1590		-1481		1			20	P
Lead	208	9.3083		14.4554		14.6389		3.2392	3.2392	MG/KG	159	N	165	N	1		75 - 125	20	MS
Lithium		23.4985		129.0436		130.5822		107.9727	107.9727	MG/KG	98		99		1		82 - 114	20	P
Magnesium		4808.0593		5177.6032		5360.0091		215.9454	215.9454	MG/KG	171		256		3			20	P
Manganese		317.0770		379.9398		364.2394		53.9864	53.9864	MG/KG	116		87		4			20	P
Mercury		0.0142	B	0.1844		0.1866		0.1708	0.1777	MG/KG	100		97		1		65 - 135	20	CV
Molybdenum	98	0.5615		13.4059		14.2913		10.7973	10.7973	MG/KG	119		127	N	6		75 - 125	20	MS
Nickel	60	19.2244		32.3918		33.6443		10.7973	10.7973	MG/KG	122		134	N	4		75 - 125	20	MS
Phosphorus		333.8858		403.8892		434.2846		107.9727	107.9727	MG/KG	65	N	93		7		75 - 125	20	P
Potassium		2955.8512		4296.4639		4715.6485		1079.7270	1079.7270	MG/KG	124		163	N	9		75 - 125	20	P
Selenium	78	0.1325	B	2.5201		2.6712		2.1595	2.1595	MG/KG	111		118		6		75 - 125	20	MS
Silver	107	0.0517	B	13.3282		14.1531		10.7973	10.7973	MG/KG	123		131	N	6		75 - 125	20	MS
Sodium		98.7624	B	1230.1633		1290.1918		1079.7270	1079.7270	MG/KG	105		110		5		75 - 125	20	P
Strontium		32.3003		136.8748		140.3829		107.9727	107.9727	MG/KG	97		100		3		75 - 115	20	P
Thallium	203	0.3408		0.8249		0.9115		0.4319	0.4319	MG/KG	112		132	N	10		75 - 125	20	MS
Tin		2.8504	B	383.9380		389.0580		431.8908	431.8908	MG/KG	88		89		1		80 - 110	20	P
Titanium		1259.1726		1402.1519		1468.5346		107.9727	107.9727	MG/KG	132		194		5			20	P
Vanadium	51	49.6654		61.3069		63.7039		10.7973	10.7973	MG/KG	108		130		4			20	MS
Zinc	66	75.8853		94.7137		95.3615		10.7973	10.7973	MG/KG	174		180		1			20	MS
Zirconium		2.0282	B	105.9849		106.9696		107.9727	107.9727	MG/KG	96		97		1		75 - 125	20	P

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:
N = Matrix Spike OOS, * = Duplicate OOS

SAMPLE DELIVERY GROUP

DE214

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
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3050B	6010B	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3050B	6020	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3060A	7199	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3550B	8015B	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3550B	8015M	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3550B	8082	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3550B	8270C	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3550B	8270C SIM	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	5035	8015M	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	METHOD	300.0	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	METHOD	314.0	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	METHOD	7471A	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	METHOD	8015B	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	METHOD	8015M	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3050B	6010B	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3050B	6020	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3060A	7199	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3550B	8082	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3550B	8270C	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3550B	8270C SIM	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	METHOD	300.0	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	METHOD	314.0	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	METHOD	7471A	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0DU	P363164D271800A	DUP	METHOD	314.0	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0DU	P363164D271842A	DUP	METHOD	300.0	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0MS	P363164R271824A	MS	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0MS	P363164R271856A	MS	METHOD	300.0	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3050B	6010B	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3050B	6020	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3060A	7199	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3550B	8015B	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3550B	8015M	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3550B	8082	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3550B	8270C	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3550B	8270C SIM	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	5035	8015M	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	METHOD	300.0	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	METHOD	314.0	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	METHOD	7471A	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	METHOD	8015B	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	METHOD	8015M	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3050B	6010B	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3050B	6020	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3060A	7199	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3550B	8015B	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3550B	8015M	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3550B	8082	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3550B	8270C	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3550B	8270C SIM	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	5035	8015M	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	METHOD	300.0	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	METHOD	7471A	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	METHOD	8015B	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	METHOD	8015M	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3005A	6010B	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3020A	6020	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3510C	8015B	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3510C	8015M	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3510C	8082	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3510C	8270C	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3510C	8270C SIM	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3520C	1625C	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	5030B	8015M	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	5030B	8260B	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	5030B	8260B SIM	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	8330	8330A	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	Gen Prep	300.0	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	Gen Prep	314.0	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	Gen Prep	7199	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	Gen Prep	8015B	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	Gen Prep	8015M	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	METHOD	7470A	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	METHOD	8315A	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	METHOD	9012B	III
02-Aug-2011	EB-SA6-SB-080211MSD	P363167M321941A	MSD	Gen Prep	8015B	III
02-Aug-2011	EB-SA6-SB-080211MS	P363167R321926A	MS	Gen Prep	8015B	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3050B	6010B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3050B	6020	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3060A	7199	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3550B	8082	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3550B	8270C	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3550B	8270C SIM	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	METHOD	300.0	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	METHOD	314.0	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	METHOD	6850	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	METHOD	7471A	III
02-Aug-2011	TB-080211	6363171	TB	5030B	8015M	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3050B	6010B	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3050B	6020	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3060A	7199	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3550B	8082	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3550B	8270C	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3550B	8270C SIM	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	METHOD	300.0	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	METHOD	314.0	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SL-128-SA6-SB-4.0-5.0 *Collected:* 8/2/2011 12:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.0		0.87	MDL	1.1	PQL	mg/Kg	J	E

Sample ID: SL-128-SA6-SB-7.5-8.5 *Collected:* 8/2/2011 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.88	MDL	1.1	PQL	mg/Kg	J	E

Sample ID: SL-145-SA6-SB-3.5-4.5 *Collected:* 8/2/2011 8:28:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.84	MDL	1.1	PQL	mg/Kg	J	E

Sample ID: SL-160-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 8:46:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	12.8		0.91	MDL	1.1	PQL	mg/Kg	J	E

Sample ID: SL-162-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.1		0.90	MDL	1.1	PQL	mg/Kg	J	E

Sample ID: SL-162-SA5DN-SB-9.0-10.0 *Collected:* 8/2/2011 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	3.7		0.93	MDL	1.2	PQL	mg/Kg	J	E

Method Category: GENCHEM

Method: 314.0 **Matrix: SO**

Sample ID: SL-128-SA6-SB-4.0-5.0 *Collected:* 8/2/2011 12:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	9.6	U	9.6	MDL	32.1	PQL	ug/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: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 314.0 **Matrix: SO**

Sample ID: SL-128-SA6-SB-7.5-8.5 *Collected:* 8/2/2011 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	9.9	U	9.9	MDL	33.0	PQL	ug/Kg	UJ	Q

Sample ID: SL-145-SA6-SB-3.5-4.5 *Collected:* 8/2/2011 8:28:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	9.7	U	9.7	MDL	32.3	PQL	ug/Kg	UJ	Q

Sample ID: SL-160-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 8:46:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	10.1	U	10.1	MDL	33.8	PQL	ug/Kg	UJ	Q

Sample ID: SL-162-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	10.0	U	10.0	MDL	33.4	PQL	ug/Kg	UJ	Q

Sample ID: SL-162-SA5DN-SB-9.0-10.0 *Collected:* 8/2/2011 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
PERCHLORATE	10.4	U	10.4	MDL	34.6	PQL	ug/Kg	UJ	Q

Method Category: METALS

Method: 6010B **Matrix: AQ**

Sample ID: EB-SA6-SB-080211 *Collected:* 8/2/2011 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
BORON	0.0037	J	0.0022	MDL	0.0500	PQL	mg/L	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: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-128-SA6-SB-4.0-5.0** ***Collected:*** **8/2/2011 12:25:00** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2470		2.60	MDL	20.8	PQL	mg/Kg	J	E, A
MAGNESIUM	3700		0.457	MDL	10.4	PQL	mg/Kg	J	A
PHOSPHORUS	223		0.363	MDL	10.4	PQL	mg/Kg	J	Q
POTASSIUM	2070		11.7	MDL	51.9	PQL	mg/Kg	J	Q, A
SODIUM	70.1	J	6.18	MDL	104	PQL	mg/Kg	J	Z
TIN	2.52	J	0.332	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.09	J	0.478	MDL	5.19	PQL	mg/Kg	J	Z

Sample ID: **SL-128-SA6-SB-7.5-8.5** ***Collected:*** **8/2/2011 12:35:00** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2610		2.72	MDL	21.8	PQL	mg/Kg	J	E, A
MAGNESIUM	5370		0.479	MDL	10.9	PQL	mg/Kg	J	A
PHOSPHORUS	428		0.381	MDL	10.9	PQL	mg/Kg	J	Q
POTASSIUM	2900		12.3	MDL	54.4	PQL	mg/Kg	J	Q, A
TIN	2.75	J	0.348	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	0.770	J	0.500	MDL	5.44	PQL	mg/Kg	J	Z

Sample ID: **SL-145-SA6-SB-3.5-4.5** ***Collected:*** **8/2/2011 8:28:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2500		2.61	MDL	20.9	PQL	mg/Kg	J	E, A
MAGNESIUM	4660		0.460	MDL	10.5	PQL	mg/Kg	J	A
PHOSPHORUS	443		0.366	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	3530		11.8	MDL	52.3	PQL	mg/Kg	J	Q, A
SODIUM	56.2	J	6.22	MDL	105	PQL	mg/Kg	J	Z
TIN	2.56	J	0.334	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	0.996	J	0.481	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: **SL-160-SA5DN-SB-4.0-5.0** ***Collected:*** **8/2/2011 8:46:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	186		0.379	MDL	10.8	PQL	mg/Kg	J	Q
TIN	3.30	J	0.347	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

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-160-SA5DN-SB-4.0-5.0** ***Collected:*** **8/2/2011 8:46:00 AM** ***Analysis Type:*** **REA2** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4750		2.71	MDL	21.7	PQL	mg/Kg	J	E, A
MAGNESIUM	7670		0.476	MDL	10.8	PQL	mg/Kg	J	A
POTASSIUM	2800		12.2	MDL	54.1	PQL	mg/Kg	J	Q, A

Sample ID: **SL-162-SA5DN-SB-4.0-5.0** ***Collected:*** **8/2/2011 2:00:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	367		0.383	MDL	10.9	PQL	mg/Kg	J	Q
TIN	2.92	J	0.350	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	4.28	J	0.503	MDL	5.46	PQL	mg/Kg	J	Z

Sample ID: **SL-162-SA5DN-SB-4.0-5.0** ***Collected:*** **8/2/2011 2:00:00 PM** ***Analysis Type:*** **REA2** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	5020		2.73	MDL	21.9	PQL	mg/Kg	J	E, A
MAGNESIUM	8470		0.481	MDL	10.9	PQL	mg/Kg	J	A
POTASSIUM	6070		12.4	MDL	54.6	PQL	mg/Kg	J	Q, A

Sample ID: **SL-162-SA5DN-SB-9.0-10.0** ***Collected:*** **8/2/2011 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
CALCIUM	4480		2.80	MDL	22.4	PQL	mg/Kg	J	E, A
MAGNESIUM	7640		0.492	MDL	11.2	PQL	mg/Kg	J	A
PHOSPHORUS	366		0.391	MDL	11.2	PQL	mg/Kg	J	Q
POTASSIUM	3830		12.6	MDL	55.9	PQL	mg/Kg	J	Q, A
TIN	2.70	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	4.66	J	0.515	MDL	5.59	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-128-SA6-SB-4.0-5.0** ***Collected:*** **8/2/2011 12:25:00** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0838	J	0.0768	MDL	0.208	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-128-SA6-SB-4.0-5.0** ***Collected:*** **8/2/2011 12:25:00** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	13.3		0.0831	MDL	0.415	PQL	mg/Kg	J	Q
CADMIUM	0.120		0.0457	MDL	0.104	PQL	mg/Kg	J	Q
COPPER	6.95		0.0831	MDL	0.415	PQL	mg/Kg	J	Q
LEAD	5.24		0.0106	MDL	0.208	PQL	mg/Kg	J	Q, E
NICKEL	11.5		0.104	MDL	0.415	PQL	mg/Kg	J	Q
SILVER	0.0643	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.253		0.0312	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: **SL-128-SA6-SB-4.0-5.0** ***Collected:*** **8/2/2011 12:25:00** ***Analysis Type:*** **REA5** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.109	J	0.0602	MDL	0.415	PQL	mg/Kg	J	Z

Sample ID: **SL-128-SA6-SB-4.0-5.0** ***Collected:*** **8/2/2011 12:25:00** ***Analysis Type:*** **REA6** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.881		0.0519	MDL	0.104	PQL	mg/Kg	J	Q, E

Sample ID: **SL-128-SA6-SB-7.5-8.5** ***Collected:*** **8/2/2011 12:35:00** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0920	J	0.0797	MDL	0.215	PQL	mg/Kg	J	Z, Q
ARSENIC	5.85		0.0862	MDL	0.431	PQL	mg/Kg	J	Q
CADMIUM	0.147		0.0474	MDL	0.108	PQL	mg/Kg	J	Q
COPPER	8.52		0.0862	MDL	0.431	PQL	mg/Kg	J	Q
LEAD	5.53		0.0110	MDL	0.215	PQL	mg/Kg	J	Q, E
NICKEL	12.7		0.108	MDL	0.431	PQL	mg/Kg	J	Q
SILVER	0.0364	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.272		0.0323	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: **SL-128-SA6-SB-7.5-8.5** ***Collected:*** **8/2/2011 12:35:00** ***Analysis Type:*** **REA5** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.135	J	0.0625	MDL	0.431	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-128-SA6-SB-7.5-8.5** ***Collected:*** **8/2/2011 12:35:00** ***Analysis Type:*** **REA6** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.579		0.0539	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: **SL-145-SA6-SB-3.5-4.5** ***Collected:*** **8/2/2011 8:28:00 AM** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0995	J	0.0766	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	5.78		0.0828	MDL	0.414	PQL	mg/Kg	J	Q
CADMIUM	0.203		0.0455	MDL	0.104	PQL	mg/Kg	J	Q
COPPER	11.3		0.0828	MDL	0.414	PQL	mg/Kg	J	Q
LEAD	5.89		0.0106	MDL	0.207	PQL	mg/Kg	J	Q, E
NICKEL	15.4		0.104	MDL	0.414	PQL	mg/Kg	J	Q
SILVER	0.0540	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.344		0.0311	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: **SL-145-SA6-SB-3.5-4.5** ***Collected:*** **8/2/2011 8:28:00 AM** ***Analysis Type:*** **REA5** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.161	J	0.0600	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: **SL-145-SA6-SB-3.5-4.5** ***Collected:*** **8/2/2011 8:28:00 AM** ***Analysis Type:*** **REA6** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.634		0.0518	MDL	0.104	PQL	mg/Kg	J	Q, E

Sample ID: **SL-160-SA5DN-SB-4.0-5.0** ***Collected:*** **8/2/2011 8:46:00 AM** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.229		0.0809	MDL	0.219	PQL	mg/Kg	J	Q
ARSENIC	11.0		0.0875	MDL	0.437	PQL	mg/Kg	J	Q
CADMIUM	0.0677	J	0.0481	MDL	0.109	PQL	mg/Kg	J	Z, Q
COPPER	17.2		0.0875	MDL	0.437	PQL	mg/Kg	J	Q
LEAD	13.8		0.0112	MDL	0.219	PQL	mg/Kg	J	Q, E
NICKEL	25.5		0.109	MDL	0.437	PQL	mg/Kg	J	Q
SILVER	0.0931	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.420		0.0328	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: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-160-SA5DN-SB-4.0-5.0 ***Collected:*** 8/2/2011 8:46:00 AM ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.180	J	0.0634	MDL	0.437	PQL	mg/Kg	J	Z

Sample ID: SL-160-SA5DN-SB-4.0-5.0 ***Collected:*** 8/2/2011 8:46:00 AM ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.730		0.0547	MDL	0.109	PQL	mg/Kg	J	Q, E

Sample ID: SL-162-SA5DN-SB-4.0-5.0 ***Collected:*** 8/2/2011 2:00:00 PM ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.242		0.0817	MDL	0.221	PQL	mg/Kg	J	Q
ARSENIC	7.46		0.0883	MDL	0.442	PQL	mg/Kg	J	Q
CADMIUM	0.189		0.0486	MDL	0.110	PQL	mg/Kg	J	Q
COPPER	19.5		0.0883	MDL	0.442	PQL	mg/Kg	J	Q
LEAD	11.2		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, E
NICKEL	27.5		0.110	MDL	0.442	PQL	mg/Kg	J	Q
SILVER	0.0493	J	0.0157	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.459		0.0331	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-162-SA5DN-SB-4.0-5.0 ***Collected:*** 8/2/2011 2:00:00 PM ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.191	J	0.0640	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA5DN-SB-4.0-5.0 ***Collected:*** 8/2/2011 2:00:00 PM ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.583		0.0552	MDL	0.110	PQL	mg/Kg	J	Q, E

Sample ID: SL-162-SA5DN-SB-9.0-10.0 ***Collected:*** 8/2/2011 3:15:00 PM ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.189	J	0.0844	MDL	0.228	PQL	mg/Kg	J	Z, Q
ARSENIC	8.78		0.0913	MDL	0.456	PQL	mg/Kg	J	Q
CADMIUM	0.0916	J	0.0502	MDL	0.114	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-162-SA5DN-SB-9.0-10.0 *Collected:* 8/2/2011 3:15:00 PM *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	16.6		0.0913	MDL	0.456	PQL	mg/Kg	J	Q
LEAD	10.5		0.0116	MDL	0.228	PQL	mg/Kg	J	Q, E
NICKEL	23.6		0.114	MDL	0.456	PQL	mg/Kg	J	Q
SILVER	0.0350	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.391		0.0342	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-162-SA5DN-SB-9.0-10.0 *Collected:* 8/2/2011 3:15:00 PM *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.168	J	0.0662	MDL	0.456	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA5DN-SB-9.0-10.0 *Collected:* 8/2/2011 3:15:00 PM *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.475		0.0570	MDL	0.114	PQL	mg/Kg	J	Q, E

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-160-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 8:46:00 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	0.66	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7470A **Matrix: AQ**

Sample ID: EB-SA6-SB-080211 *Collected:* 8/2/2011 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
MERCURY	0.000036	J	0.000026	MDL	0.00020	PQL	mg/L	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: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1625C **Matrix: AQ**

Sample ID: EB-SA6-SB-080211 ***Collected:*** 8/2/2011 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	4.53		0.543	MDL	1.09	PQL	ng/L	J	S

Method Category: SVOA

Method: 8015M **Matrix: AQ**

Sample ID: EB-SA6-SB-080211 ***Collected:*** 8/2/2011 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
EFH (C12-C14)	0.097	U	0.097	MDL	0.58	PQL	mg/L	UJ	L
EFH (C15-C20)	0.097	U	0.097	MDL	0.58	PQL	mg/L	UJ	L
EFH (C21-C30)	0.097	U	0.097	MDL	0.58	PQL	mg/L	UJ	L
EFH (C30-C40)	0.097	U	0.097	MDL	0.58	PQL	mg/L	UJ	L
EFH (C8-C11)	0.097	U	0.097	MDL	0.58	PQL	mg/L	UJ	L

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-128-SA6-SB-4.0-5.0 ***Collected:*** 8/2/2011 12:25:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.61	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-145-SA6-SB-3.5-4.5 ***Collected:*** 8/2/2011 8:28:00 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)	1.0	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-128-SA6-SB-7.5-8.5 ***Collected:*** 8/2/2011 12:35:00 ***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	0.84	J	0.43	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: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-162-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 2:00:00 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
AROCLOR 1254	0.55	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: AQ**

Sample ID: EB-SA6-SB-080211 *Collected:* 8/2/2011 1:00:00 PM *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	10	U	10	MDL	30	PQL	ug/L	UJ	L
4,6-DINITRO-2-METHYLPHENOL	5	U	5	MDL	15	PQL	ug/L	UJ	L
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E

Method Category: SVOA

Method: 8270C SIM **Matrix: AQ**

Sample ID: EB-SA6-SB-080211 *Collected:* 8/2/2011 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
BENZO(A)ANTHRACENE	0.015	J	0.010	MDL	0.051	PQL	ug/L	J	Z
BENZO(B)FLUORANTHENE	0.013	J	0.010	MDL	0.051	PQL	ug/L	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	0.27	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
CHRYSENE	0.014	J	0.010	MDL	0.051	PQL	ug/L	J	Z
Diethylphthalate	0.086	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.22	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-octylphthalate	0.20	J	0.051	MDL	1.0	PQL	ug/L	J	Z
NAPHTHALENE	0.044	J	0.031	MDL	0.051	PQL	ug/L	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: **SL-128-SA6-SB-4.0-5.0** ***Collected:*** **8/2/2011 12:25:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.88	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.98	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.94	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	1.3	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.75	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.89	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: **SL-128-SA6-SB-7.5-8.5** ***Collected:*** **8/2/2011 12:35:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.6	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: **SL-145-SA6-SB-3.5-4.5** ***Collected:*** **8/2/2011 8:28:00 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
ANTHRACENE	0.47	J	0.36	MDL	1.8	PQL	ug/Kg	U	F
PHENANTHRENE	0.73	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: **SL-162-SA5DN-SB-4.0-5.0** ***Collected:*** **8/2/2011 2:00:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.5	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.8	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	16	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Butylbenzylphthalate	11	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Diethylphthalate	12	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Dimethylphthalate	9.8	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Di-n-butylphthalate	14	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.5	J	6.7	MDL	20	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: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: **SL-162-SA5DN-SB-9.0-10.0** ***Collected:*** **8/2/2011 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*
BIS(2-ETHYLHEXYL)PHTHALATE	19	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8330A **Matrix: AQ**

Sample ID: **EB-SA6-SB-080211** ***Collected:*** **8/2/2011 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*
4-AMINO-2,6-DINITROTOLUENE	0.34	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

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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: DE214 **Laboratory: LL**

EDD Filename: DE214_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

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE214

Method Blank Outlier Report

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21548DB220528	8/5/2011 5:28:00 AM	BORON Zirconium	0.0024 mg/L 0.0069 mg/L	EB-SA6-SB-080211

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-080211(RES)	BORON	0.0037 mg/L	0.0037U mg/L

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21708BB220925	8/12/2011 9:25:00 AM	BORON	0.499 mg/Kg	SL-128-SA6-SB-4.0-5.0 SL-128-SA6-SB-7.5-8.5 SL-145-SA6-SB-3.5-4.5 SL-160-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-9.0-10.0
P21708BB221518	8/11/2011 3:18:00 PM	CALCIUM	7.85 mg/Kg	SL-128-SA6-SB-4.0-5.0 SL-128-SA6-SB-7.5-8.5 SL-145-SA6-SB-3.5-4.5 SL-160-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-9.0-10.0
P21708BB221539	8/8/2011 3:39:00 PM	IRON PHOSPHORUS STRONTIUM TIN	3.78 mg/Kg 0.944 mg/Kg 0.0480 mg/Kg 1.71 mg/Kg	SL-128-SA6-SB-4.0-5.0 SL-128-SA6-SB-7.5-8.5 SL-145-SA6-SB-3.5-4.5 SL-160-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-4.0-5.0 SL-162-SA5DN-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-128-SA6-SB-4.0-5.0(REA)	TIN	2.52 mg/Kg	2.52U mg/Kg
SL-128-SA6-SB-7.5-8.5(REA)	TIN	2.75 mg/Kg	2.75U mg/Kg
SL-145-SA6-SB-3.5-4.5(REA)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-160-SA5DN-SB-4.0-5.0(REA)	TIN	3.30 mg/Kg	3.30U mg/Kg
SL-162-SA5DN-SB-4.0-5.0(REA)	TIN	2.92 mg/Kg	2.92U mg/Kg
SL-162-SA5DN-SB-9.0-10.0(REA)	TIN	2.70 mg/Kg	2.70U mg/Kg

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

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

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA6-SB-080211(RES)	8/2/2011 1:00:00 PM	ANTHRACENE	0.12 ug/L	SL-128-SA6-SB-4.0-5.0
		BENZO(A)ANTHRACENE	0.015 ug/L	SL-128-SA6-SB-7.5-8.5
		BENZO(B)FLUORANTHENE	0.013 ug/L	SL-145-SA6-SB-3.5-4.5
		BIS(2-ETHYLHEXYL)PHTHALATE	0.27 ug/L	
		Butylbenzylphthalate	0.14 ug/L	
		CHRYSENE	0.014 ug/L	
		Diethylphthalate	0.086 ug/L	
		Di-n-butylphthalate	0.22 ug/L	
		Di-n-octylphthalate	0.2 ug/L	
		NAPHTHALENE	0.044 ug/L	

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-145-SA6-SB-3.5-4.5(RES)	ANTHRACENE	0.47 ug/Kg	1.8U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 314.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-160-SA5DN-SB-4.0-5.0MS (SL-128-SA6-SB-4.0-5.0 SL-128-SA6-SB-7.5-8.5 SL-145-SA6-SB-3.5-4.5 SL-160-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-9.0-10.0)	PERCHLORATE	37	-	80.00-120.00	-	PERCHLORATE	J (all detects) UJ (all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-160-SA5DN-SB-4.0-5.0DUP (SL-128-SA6-SB-4.0-5.0 SL-128-SA6-SB-7.5-8.5 SL-145-SA6-SB-3.5-4.5 SL-160-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-9.0-10.0)	FLUORIDE	26	20.00	J (all detects) UJ (all non-detects)

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_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
P12172AQ320723A P12172AY320214A (EB-SA6-SB-080211)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	48 49 48 51 44	50 49 46 46 44	69.00-125.00 77.00-125.00 68.00-124.00 80.00-121.00 46.00-103.00	- - - - -	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	J (all detects) UJ (all non-detects)

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12206AQ240500A P12206AQ240708A P12206AY240543A (EB-SA6-SB-080211)	2,4-DIAMINO-6-NITROTOLUENE 2,6-Diamino-4-nitrotoluene 3-NITROTOLUENE PETN	123 123 110 133	- - 110 133	50.00-122.00 50.00-122.00 69.00-107.00 80.00-120.00	- - - -	2,4-DIAMINO-6-NITROTOLUEN 2,6-Diamino-4-nitrotoluene 3-NITROTOLUENE PETN	J(all detects)
P12206AQ240500A (EB-SA6-SB-080211)	Tetryl	70	-	72.00-141.00	-	Tetryl	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12211AY321247A (EB-SA6-SB-080211)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	- - -	130 126 125	78.00-126.00 80.00-124.00 80.00-120.00	- - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J(all detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8WBLCSQ260032 P8WBLCSY260057 (EB-SA6-SB-080211)	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID	46 63 -	51 -	52.00-131.00 65.00-126.00 10.00-69.00	- - 32 (30.00)	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHEN BENZOIC ACID	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_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
P21708BQ221522 **P21708BQ221543** (SL-128-SA6-SB-4.0-5.0 SL -128-SA6-SB-7.5-8.5 SL -145-SA6-SB-3.5-4.5 SL -160-SA5DN -SB-4.0-5.0 SL -162-SA5DN -SB-4.0-5.0 SL -162-SA5DN -SB-9.0-10.0)	ALUMINUM IRON MAGNESIUM TITANIUM	152 132 125 182	- - - -	80.00-120.00 80.00-120.00 80.00-120.00 80.00-120.00	- - - -	ALUMINUM IRON MAGNESIUM 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
P3LDLCSQ261043 (SL-128-SA6-SB-4.0-5.0 SL -128-SA6-SB-7.5-8.5 SL -145-SA6-SB-3.5-4.5 SL -160-SA5DN -SB-4.0-5.0 SL -162-SA5DN -SB-4.0-5.0 SL -162-SA5DN -SB-9.0-10.0)	4-BROMOPHENYL-PHENYLETH	118	-	73.00-114.00	-	4-BROMOPHENYL-PHENYLET	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-080211	N-Nitrosodimethylamine-d6	172	50.00-150.00	All Target Analytes	J (all detects)

Method: 8270C SIM
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-162-SA5DN-SB-4.0-5.0	Terphenyl-d14	155	45.00-135.00	No Affected Compounds	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE214 | **Laboratory: LL**

EDD Filename: DE214_v1. | **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080211	BORON	J	0.0037	0.0500	PQL	mg/L	J (all detects)

Method: 7470A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080211	MERCURY	J	0.000036	0.00020	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-080211	BENZO(A)ANTHRACENE	J	0.015	0.051	PQL	ug/L	J (all detects)
	BENZO(B)FLUORANTHENE	J	0.013	0.051	PQL	ug/L	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.27	1.0	PQL	ug/L	
	Butylbenzylphthalate	J	0.14	1.0	PQL	ug/L	
	CHRYSENE	J	0.014	0.051	PQL	ug/L	
	Diethylphthalate	J	0.086	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.22	1.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.20	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.044	0.051	PQL	ug/L	

Method: 8330A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080211	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-128-SA6-SB-4.0-5.0	SODIUM	J	70.1	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.52	10.4	PQL	mg/Kg	
	Zirconium	J	1.09	5.19	PQL	mg/Kg	
SL-128-SA6-SB-7.5-8.5	TIN	J	2.75	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.770	5.44	PQL	mg/Kg	
SL-145-SA6-SB-3.5-4.5	SODIUM	J	56.2	105	PQL	mg/Kg	J (all detects)
	TIN	J	2.56	10.5	PQL	mg/Kg	
	Zirconium	J	0.996	5.23	PQL	mg/Kg	
SL-160-SA5DN-SB-4.0-5.0	TIN	J	3.30	10.8	PQL	mg/Kg	J (all detects)
SL-162-SA5DN-SB-4.0-5.0	TIN	J	2.92	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.28	5.46	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-162-SA5DN-SB-9.0-10.0	TIN	J	2.70	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.66	5.59	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SB-4.0-5.0	ANTIMONY	J	0.0838	0.208	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.109	0.415	PQL	mg/Kg	
	SILVER	J	0.0643	0.104	PQL	mg/Kg	
SL-128-SA6-SB-7.5-8.5	ANTIMONY	J	0.0920	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.135	0.431	PQL	mg/Kg	
	SILVER	J	0.0364	0.108	PQL	mg/Kg	
SL-145-SA6-SB-3.5-4.5	ANTIMONY	J	0.0995	0.207	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.161	0.414	PQL	mg/Kg	
	SILVER	J	0.0540	0.104	PQL	mg/Kg	
SL-160-SA5DN-SB-4.0-5.0	CADMIUM	J	0.0677	0.109	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.180	0.437	PQL	mg/Kg	
	SILVER	J	0.0931	0.109	PQL	mg/Kg	
SL-162-SA5DN-SB-4.0-5.0	SELENIUM	J	0.191	0.442	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0493	0.110	PQL	mg/Kg	
SL-162-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.189	0.228	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0916	0.114	PQL	mg/Kg	
	SELENIUM	J	0.168	0.456	PQL	mg/Kg	
	SILVER	J	0.0350	0.114	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-160-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.66	1.1	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SB-4.0-5.0	EFH (C21-C30)	J	0.61	1.3	PQL	mg/Kg	J (all detects)
SL-145-SA6-SB-3.5-4.5	EFH (C30-C40)	J	1.0	1.3	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SB-7.5-8.5	AROCLOR 1260	J	0.84	1.9	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-162-SA5DN-SB-4.0-5.0	AROCLOR 1254	J	0.55	1.9	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SB-4.0-5.0	ANTHRACENE	J	0.88	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.0	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.98	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.94	1.8	PQL	ug/Kg	
	CHRYSENE	J	1.3	1.8	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.75	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.3	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.89	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.0	1.8	PQL	ug/Kg	
	PYRENE	J	1.3	1.8	PQL	ug/Kg	
SL-128-SA6-SB-7.5-8.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.6	20	PQL	ug/Kg	J (all detects)
SL-145-SA6-SB-3.5-4.5	ANTHRACENE	J	0.47	1.8	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	0.73	1.8	PQL	ug/Kg	
SL-162-SA5DN-SB-4.0-5.0	1-METHYLNAPHTHALENE	J	1.5	1.9	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.8	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	16	20	PQL	ug/Kg	
	Butylbenzylphthalate	J	11	20	PQL	ug/Kg	
	Diethylphthalate	J	12	20	PQL	ug/Kg	
	Dimethylphthalate	J	9.8	20	PQL	ug/Kg	
	Di-n-butylphthalate	J	14	20	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.5	20	PQL	ug/Kg	
SL-162-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	21	PQL	ug/Kg	J (all detects)

LDC #: 26859A4

VALIDATION COMPLETENESS WORKSHEET

ADR

Date: 1/27/11

SDG #: DE214

Page: 1 of 1

Laboratory: Lancaster Laboratories

Reviewer: W

2nd Reviewer: A

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)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	SW	TB=4

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-160-SA5DN-SB-4.0-5.0 Soil	11	MB	21		31	
2	SL-162-SA5DN-SB-4.0-5.0	12		22		32	
3	SL-162-SA5DN-SB-9.0-10.0	13		23		33	
4	EB-SA6-SB-080211	14		24		34	
5	SL-128-SA6-SB-4.0-5.0 Soil	15		25		35	
6	SL-128-SA6-SB-7.5-8.5	16		26		36	
7	SL-145-SA6-SB-3.5-4.5	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 26859A4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Sample Concentration units, unless otherwise noted: ug/L

Soil preparation factor applied: 200X
Associated Samples: All AQ

Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	4									
Hg			0.037	0.185	0.036									

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U". Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 26859A4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer:
2nd Reviewer:

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: 8/2/11 Soil factor applied 100x, Hg: 167X

Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All Soil (>5X or ND)

Analyte	Blank ID	Sample Identification											
	4	Action Level											
B	3.7	1.85											
Hg	0.036	0.030											

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".

SL-175-SA5DN-SB-4.0-5.0 (DE213) & Ac for DE214

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE213
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6361772BKG Matrix Spike Lab Sample ID: 6361773MS Matrix Spike Duplicate Lab Sample ID: 6361774MSD
% Solids for Sample: 90.8
Batch Id(s): P21708B, P21726A, P21511B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M	
Aluminum		20794.5828		22588.3022		22845.2816		215.9454	215.9454	MG/KG	831		950		1			20	P	
Antimony	121	0.1631	B	0.7081		0.7381		1.2957	1.2957	MG/KG	42	N	44	N	4		75 - 125	20	MS	J/UJ
Arsenic	75	5.6591		8.6637		8.7372		2.1595	2.1595	MG/KG	139	N	143	N	1		75 - 125	20	MS	J/UJ
Barium	137	136.1826		159.7564		168.9557		10.7973	10.7973	MG/KG	218		304		6			20	MS	
Beryllium	9	0.7923		1.7263		1.7917		0.8638	0.8638	MG/KG	108		116		4		75 - 125	20	MS	
Boron		8.1171		227.3484		224.5476		215.9454	215.9454	MG/KG	102		100		1		84 - 115	20	P	
Cadmium	111	0.3111		1.7187		1.8044		1.0797	1.0797	MG/KG	130	N	138	N	5		75 - 125	20	MS	J/UJ
Calcium		18664.5058		15254.3254		19266.7412		431.8908	431.8908	MG/KG	-790		139		23	*		20	P	J/UJ
Chromium	52	27.0671		39.9283		38.9997		10.7973	10.7973	MG/KG	119		111		2		75 - 125	20	MS	
Cobalt	59	8.3044		72.1474		76.0560		53.9864	53.9864	MG/KG	118		125		5		75 - 125	20	MS	
Copper	63	13.6522		27.4899		28.4184		10.7973	10.7973	MG/KG	128	N	137	N	3		75 - 125	20	MS	J/UJ
Iron		23140.1012		21423.0673		21541.5544		107.9727	107.9727	MG/KG	-1590		-1481		1			20	P	
Lead	208	9.3083		14.4554		14.6389		3.2392	3.2392	MG/KG	159	N	165	N	1		75 - 125	20	MS	J/UJ
Lithium		23.4985		129.0436		130.5822		107.9727	107.9727	MG/KG	98		99		1		82 - 114	20	P	
Magnesium		4808.0593		5177.6032		5360.0091		215.9454	215.9454	MG/KG	171		256		3			20	P	
Manganese		317.0770		379.9398		364.2394		53.9864	53.9864	MG/KG	116		87		4			20	P	
Mercury		0.0142	B	0.1844		0.1866		0.1708	0.1777	MG/KG	100		97		1		65 - 135	20	CV	
Molybdenum	98	0.5615		13.4059		14.2913		10.7973	10.7973	MG/KG	119		127	N	6		75 - 125	20	MS	J/UJ
Nickel	60	19.2244		32.3918		33.6443		10.7973	10.7973	MG/KG	122		134	N	4		75 - 125	20	MS	J
Phosphorus		333.8858		403.8892		434.2846		107.9727	107.9727	MG/KG	65	N	93		7		75 - 125	20	P	J/UJ
Potassium		2955.8512		4296.4639		4715.6485		1079.7270	1079.7270	MG/KG	124		163	N	9		75 - 125	20	P	J/UJ
Selenium	78	0.1325	B	2.5201		2.6712		2.1595	2.1595	MG/KG	111		118		6		75 - 125	20	MS	
Silver	107	0.0517	B	13.3282		14.1531		10.7973	10.7973	MG/KG	123		131	N	6		75 - 125	20	MS	J/UJ
Sodium		98.7624	B	1230.1633		1290.1918		1079.7270	1079.7270	MG/KG	105		110		5		75 - 125	20	P	
Strontium		32.3003		136.8748		140.3829		107.9727	107.9727	MG/KG	97		100		3		75 - 115	20	P	
Thallium	203	0.3408		0.8249		0.9115		0.4319	0.4319	MG/KG	112		132	N	10		75 - 125	20	MS	J/UJ
Tin		2.8504	B	383.9380		389.0580		431.8908	431.8908	MG/KG	88		89		1		80 - 110	20	P	
Titanium		1259.1726		1402.1519		1468.5346		107.9727	107.9727	MG/KG	132		194		5			20	P	
Vanadium	51	49.6654		61.3069		63.7039		10.7973	10.7973	MG/KG	108		130		4			20	MS	
Zinc	66	75.8853		94.7137		95.3615		10.7973	10.7973	MG/KG	174		180		1			20	MS	
Zirconium		2.0282	B	105.9849		106.9696		107.9727	107.9727	MG/KG	96		97		1		75 - 125	20	P	

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE213
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6361772BKG
% Solids for Duplicate: 90.6
Batch ID(s): P21708B, P21726A, P21511B
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6361775DUP
% Solids for Sample: 90.8

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			20794.5828		20453.6398		2		P
Antimony	121		0.1631	B	0.1531	B	6		MS
Arsenic	75		5.6591		6.4356		13		MS
Barium	137		136.1826		152.7239		11		MS
Beryllium	9		0.7923		0.8647		9		MS
Boron		5.5	8.1171		8.5860		6		P
Cadmium	111	0.1	0.3111		0.3590		14		MS
Calcium			18664.5058		15254.7108		20		P
Chromium	52		27.0671		28.1546		4		MS
Cobalt	59		8.3044		9.1879		10		MS
Copper	63		13.6522		15.3792		12		MS
Iron			23140.1012		22774.0898		2		P
Lead	208		9.3083		15.1219		48	*	MS
Lithium			23.4985		22.4454		5		P
Magnesium			4808.0593		5156.7947		7		P
Manganese			317.0770		360.3092		13		P
Mercury			0.0142	B	0.0091	B	44		CV
Molybdenum	98		0.5615		0.7105		23	*	MS
Nickel	60		19.2244		19.9416		4		MS
Phosphorus			333.8858		330.3684		1		P
Potassium			2955.8512		3092.9159		5		P
Selenium	78		0.1325	B	0.1308	B	1		MS
Silver	107		0.0517	B	0.0485	B	6		MS
Sodium			98.7624	B	99.9870	B	1		P
Strontium			32.3003		30.9763		4		P
Thallium	203	0.1	0.3408		0.3535		4		MS
Tin			2.8504	B	2.6745	B	6		P
Titanium			1259.1726		1214.1876		4		P
Vanadium	51		49.6654		53.1688		7		MS
Zinc	66		75.8853		84.7472		11		MS
Zirconium			2.0282	B	1.9759	B	3		P

J/UJ

J/UJ

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.

DE213 2688

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE213
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6361772BKG Serial Dilution Lab Sample ID: 6361772L
Batch ID(s): P21708B, P21726A
Concentration Units: UG/L

JHJ

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		190702.9600		172045.6500		10		P
Antimony	121	0.7703	B	1.8500	U	100		MS
Arsenic	75	26.7200		27.1500		2		MS
Barium	137	643.0000		622.5000		3		MS
Beryllium	9	3.7410		3.6420		3		MS
Boron		74.4400		106.3500	B	43		P
Cadmium	111	1.4690		1.5650	B	7		MS
Calcium		171168.4500		195448.0500		14	E	P
Chromium	52	127.8000		139.3500		9		MS
Cobalt	59	39.2100		38.5850		2		MS
Copper	63	64.4600		64.9500		1		MS
Iron		212213.2400		198224.8500		7		P
Lead	208	43.9500		43.5650		1		MS
Lithium		215.5000		227.9000		6		P
Magnesium		44093.7500		50199.0500		14	E	P
Manganese		2907.8500		2887.4000		1		P
Molybdenum	98	2.6510		3.2485		23		MS
Nickel	60	90.7700		92.8500		2		MS
Phosphorus		3062.0000		2838.6000		7		P
Potassium		27107.5200		29964.4500		11	E	P
Selenium	78	0.6255	B	1.4500	U	100		MS
Silver	107	0.2441	B	0.3550	U	100		MS
Sodium		905.7300	B	819.6500	B	10		P
Strontium		296.2200		282.3500		5		P
Thallium	203	1.6090		1.8495	B	15		MS
Tin		26.1400	B	24.6000	B	6		P
Titanium		11547.6200		11512.8500		0		P
Vanadium	51	234.5000		256.1000		9		MS
Zinc	66	358.3000		358.1000		0		MS
Zirconium		18.6000	B	26.3000	B	41		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

DE213 2618

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

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ
FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE215

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
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3050B	6010B	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3050B	6020	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3060A	7199	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3550B	8082	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3550B	8270C	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3550B	8270C SIM	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	METHOD	300.0	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	METHOD	314.0	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	METHOD	7471A	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3050B	6010B	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3050B	6020	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3060A	7199	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3550B	8082	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3550B	8270C	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3550B	8270C SIM	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	METHOD	300.0	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	METHOD	314.0	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	METHOD	7471A	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3050B	6010B	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3050B	6020	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3060A	7199	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3550B	8082	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3550B	8270C	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3550B	8270C SIM	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	METHOD	300.0	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	METHOD	7471A	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3050B	6010B	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3050B	6020	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3060A	7199	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3550B	8082	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3550B	8270C	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3550B	8270C SIM	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	METHOD	300.0	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	METHOD	314.0	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	METHOD	7471A	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3050B	6010B	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3050B	6020	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3060A	7199	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3550B	8082	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3550B	8270C	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3550B	8270C SIM	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	METHOD	300.0	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	METHOD	314.0	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	METHOD	7471A	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3050B	6010B	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3050B	6020	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3060A	7199	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3550B	8082	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3550B	8270C	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3550B	8270C SIM	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	METHOD	300.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	METHOD	314.0	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	METHOD	6850	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	METHOD	7471A	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3005A	6010B	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3020A	6020	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3510C	8015B	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3510C	8015M	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3510C	8082	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3510C	8270C	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3510C	8270C SIM	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3520C	1625C	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	5030B	8015M	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	5030B	8260B	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	5030B	8260B SIM	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	8330	8330A	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	Gen Prep	300.0	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	Gen Prep	314.0	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	Gen Prep	7199	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	Gen Prep	8015B	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	Gen Prep	8015M	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	METHOD	7470A	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	METHOD	8315A	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	METHOD	9012B	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3050B	6010B	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3050B	6020	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3060A	7199	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3550B	8082	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3550B	8270C	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3550B	8270C SIM	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	METHOD	300.0	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	METHOD	314.0	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	METHOD	7471A	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3050B	6010B	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3050B	6020	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3060A	7199	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3550B	8082	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3550B	8270C	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3550B	8270C SIM	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	METHOD	300.0	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	METHOD	314.0	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	METHOD	6850	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	METHOD	7471A	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0DUP	P364584D270032A	DUP	METHOD	314.0	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0MSD	P364584M262307	MSD	3550B	8270C	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0MS	P364584R262241	MS	3550B	8270C	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0MS	P364584R270056A	MS	METHOD	314.0	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3050B	6010B	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3050B	6020	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3060A	7199	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3550B	8082	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3550B	8270C	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	METHOD	300.0	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	METHOD	314.0	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	METHOD	7471A	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0DUP	P364585D272104B	DUP	METHOD	300.0	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0MS	P364585R271227B	MS	METHOD	300.0	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3050B	6010B	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3050B	6020	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3060A	7199	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3550B	8082	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3550B	8270C	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3550B	8270C SIM	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	METHOD	300.0	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	METHOD	314.0	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	METHOD	6850	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE215 Laboratory: LL

EDD Filename: PrepDE215_v2 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 Matrix: SO

Sample ID: SL-002-SA6-SB-4.0-5.0 Collected: 8/3/2011 2:30:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.7		0.91	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-002-SA6-SB-9.0-10.0 Collected: 8/3/2011 2:33:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.6		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-003-SA6-SB-4.0-5.0 Collected: 8/3/2011 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
FLUORIDE	3.9		0.92	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-003-SA6-SB-8.5-9.5 Collected: 8/3/2011 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
FLUORIDE	4.5		0.86	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-004-SA6-SB-1.5-2.5 Collected: 8/3/2011 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	1.7		0.84	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-011-SA6-SB-0.5-1.5 Collected: 8/3/2011 7:54:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.84	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-188-SA5DN-SB-4.0-5.0 Collected: 8/3/2011 10:57:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.6		0.94	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-188-SA5DN-SB-9.0-10.0 Collected: 8/3/2011 11:58:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.6		0.92	MDL	1.2	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: DE215 **Laboratory:** LL

EDD Filename: PrepDE215_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-193-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.9		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-193-SA5DN-SB-9.0-10.0 *Collected:* 8/3/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.6		0.94	MDL	1.2	PQL	mg/Kg	J	Q, E

Method Category: METALS

Method: 6010B **Matrix:** AQ

Sample ID: EB23-SA5DN-SB-080311 *Collected:* 8/3/2011 1:00:00 PM *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0103	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
CALCIUM	0.0855	J	0.0705	MDL	0.200	PQL	mg/L	U	B
STRONTIUM	0.00066	J	0.00022	MDL	0.0050	PQL	mg/L	U	B
TITANIUM	0.00047	J	0.00046	MDL	0.0100	PQL	mg/L	U	B

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-002-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 2:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	277		0.391	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.55	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	1.17	J	0.514	MDL	5.59	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA6-SB-9.0-10.0 *Collected:* 8/3/2011 2:33:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	198		0.371	MDL	10.6	PQL	mg/Kg	J	Q
TIN	2.77	J	0.339	MDL	10.6	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-003-SA6-SB-4.0-5.0 ***Collected:*** 8/3/2011 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
PHOSPHORUS	400		0.390	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.33	J	0.357	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	1.73	J	0.513	MDL	5.58	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA6-SB-8.5-9.5 ***Collected:*** 8/3/2011 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
BORON	5.37	J	0.387	MDL	5.38	PQL	mg/Kg	J	Z
PHOSPHORUS	233		0.377	MDL	10.8	PQL	mg/Kg	J	Q
TIN	2.35	J	0.344	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	0.838	J	0.495	MDL	5.38	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA6-SB-1.5-2.5 ***Collected:*** 8/3/2011 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	3.82	J	0.370	MDL	5.14	PQL	mg/Kg	U	F
PHOSPHORUS	352		0.360	MDL	10.3	PQL	mg/Kg	J	Q
SODIUM	60.9	J	6.12	MDL	103	PQL	mg/Kg	J	Z
TIN	2.60	J	0.329	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-011-SA6-SB-0.5-1.5 ***Collected:*** 8/3/2011 7:54:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.55	J	0.371	MDL	5.15	PQL	mg/Kg	U	F
PHOSPHORUS	126		0.361	MDL	10.3	PQL	mg/Kg	J	Q
TIN	2.55	J	0.330	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-188-SA5DN-SB-4.0-5.0 ***Collected:*** 8/3/2011 10:57:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	319		0.387	MDL	11.1	PQL	mg/Kg	J	Q
SODIUM	107	J	6.58	MDL	111	PQL	mg/Kg	J	Z
TIN	2.69	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	1.69	J	0.509	MDL	5.53	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: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-188-SA5DN-SB-9.0-10.0 *Collected:* 8/3/2011 11:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	237		0.393	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.62	J	0.359	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	2.81	J	0.517	MDL	5.62	PQL	mg/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	268		0.379	MDL	10.8	PQL	mg/Kg	J	Q
TIN	2.52	J	0.347	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.81	J	0.499	MDL	5.42	PQL	mg/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-9.0-10.0 *Collected:* 8/3/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	188		0.385	MDL	11.0	PQL	mg/Kg	J	Q
TIN	2.69	J	0.352	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	2.50	J	0.506	MDL	5.50	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-002-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 2:30:00 PM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0642	MDL	0.443	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 2:30:00 PM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	102		0.117	MDL	0.443	PQL	mg/Kg	J	E, E, A

Sample ID: SL-002-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 2:30:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.101	J	0.0819	MDL	0.221	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-002-SA6-SB-4.0-5.0 ***Collected:*** 8/3/2011 2:30:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	5.38		0.0885	MDL	0.443	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.882		0.0177	MDL	0.111	PQL	mg/Kg	J	Q, E
CHROMIUM	23.1		0.133	MDL	0.443	PQL	mg/Kg	J	E, E, A
COBALT	6.70		0.0221	MDL	0.111	PQL	mg/Kg	J	E, E, A
COPPER	9.92		0.0885	MDL	0.443	PQL	mg/Kg	J	E, A, Q
LEAD	8.29		0.0113	MDL	0.221	PQL	mg/Kg	J	E, E, A
NICKEL	12.4		0.111	MDL	0.443	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0516	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z, E
THALLIUM	0.315		0.0332	MDL	0.111	PQL	mg/Kg	J	Q, E
VANADIUM	47.8		0.0243	MDL	0.111	PQL	mg/Kg	J	E, E, A
ZINC	77.3		0.620	MDL	3.32	PQL	mg/Kg	J	E, A

Sample ID: SL-002-SA6-SB-9.0-10.0 ***Collected:*** 8/3/2011 2:33:00 PM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.127	J	0.0627	MDL	0.432	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA6-SB-9.0-10.0 ***Collected:*** 8/3/2011 2:33:00 PM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	141		0.115	MDL	0.432	PQL	mg/Kg	J	E, E, A

Sample ID: SL-002-SA6-SB-9.0-10.0 ***Collected:*** 8/3/2011 2:33:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.110	J	0.0800	MDL	0.216	PQL	mg/Kg	J	Z, Q
ARSENIC	6.05		0.0865	MDL	0.432	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.923		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, E
CHROMIUM	27.0		0.130	MDL	0.432	PQL	mg/Kg	J	E, E, A
COBALT	7.29		0.0216	MDL	0.108	PQL	mg/Kg	J	E, E, A
COPPER	9.88		0.0865	MDL	0.432	PQL	mg/Kg	J	E, A, Q
LEAD	9.02		0.0110	MDL	0.216	PQL	mg/Kg	J	E, E, A
NICKEL	15.0		0.108	MDL	0.432	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0617	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z, E
THALLIUM	0.374		0.0324	MDL	0.108	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-002-SA6-SB-9.0-10.0** ***Collected:*** **8/3/2011 2:33:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	53.5		0.0238	MDL	0.108	PQL	mg/Kg	J	E, E, A
ZINC	88.0		0.605	MDL	3.24	PQL	mg/Kg	J	E, A

Sample ID: **SL-003-SA6-SB-4.0-5.0** ***Collected:*** **8/3/2011 8:40:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.222	J	0.0679	MDL	0.468	PQL	mg/Kg	J	Z

Sample ID: **SL-003-SA6-SB-4.0-5.0** ***Collected:*** **8/3/2011 8:40:00 AM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	132		0.124	MDL	0.468	PQL	mg/Kg	J	E, E, A

Sample ID: **SL-003-SA6-SB-4.0-5.0** ***Collected:*** **8/3/2011 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	0.144	J	0.0867	MDL	0.234	PQL	mg/Kg	J	Z, Q
ARSENIC	6.97		0.0937	MDL	0.468	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.875		0.0187	MDL	0.117	PQL	mg/Kg	J	Q, E
CHROMIUM	37.6		0.141	MDL	0.468	PQL	mg/Kg	J	E, E, A
COBALT	9.49		0.0234	MDL	0.117	PQL	mg/Kg	J	E, E, A
COPPER	15.5		0.0937	MDL	0.468	PQL	mg/Kg	J	E, A, Q
LEAD	10.0		0.0119	MDL	0.234	PQL	mg/Kg	J	E, E, A
NICKEL	19.7		0.117	MDL	0.468	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0460	J	0.0166	MDL	0.117	PQL	mg/Kg	J	Z, E
THALLIUM	0.381		0.0351	MDL	0.117	PQL	mg/Kg	J	Q, E
VANADIUM	73.3		0.0258	MDL	0.117	PQL	mg/Kg	J	E, E, A
ZINC	80.0		0.656	MDL	3.51	PQL	mg/Kg	J	E, A

Sample ID: **SL-003-SA6-SB-8.5-9.5** ***Collected:*** **8/3/2011 8:44:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0982	J	0.0637	MDL	0.439	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: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-003-SA6-SB-8.5-9.5 ***Collected:*** 8/3/2011 8:44:00 AM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	85.3		0.116	MDL	0.439	PQL	mg/Kg	J	E, E, A

Sample ID: SL-003-SA6-SB-8.5-9.5 ***Collected:*** 8/3/2011 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	0.0812	U	0.0812	MDL	0.220	PQL	mg/Kg	R	Q
ARSENIC	4.56		0.0878	MDL	0.439	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.721		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, E
CADMIUM	0.102	J	0.0483	MDL	0.110	PQL	mg/Kg	J	Z
CHROMIUM	17.8		0.132	MDL	0.439	PQL	mg/Kg	J	E, E, A
COBALT	5.80		0.0220	MDL	0.110	PQL	mg/Kg	J	E, E, A
COPPER	6.64		0.0878	MDL	0.439	PQL	mg/Kg	J	E, A, Q
LEAD	6.59		0.0112	MDL	0.220	PQL	mg/Kg	J	E, E, A
NICKEL	10.1		0.110	MDL	0.439	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0423	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z, E
THALLIUM	0.276		0.0329	MDL	0.110	PQL	mg/Kg	J	Q, E
VANADIUM	37.8		0.0241	MDL	0.110	PQL	mg/Kg	J	E, E, A
ZINC	59.1		0.615	MDL	3.29	PQL	mg/Kg	J	E, A

Sample ID: SL-004-SA6-SB-1.5-2.5 ***Collected:*** 8/3/2011 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	0.0623	J	0.0585	MDL	0.403	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA6-SB-1.5-2.5 ***Collected:*** 8/3/2011 11:50:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	85.0		0.107	MDL	0.403	PQL	mg/Kg	J	E, E, A

Sample ID: SL-004-SA6-SB-1.5-2.5 ***Collected:*** 8/3/2011 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	0.0746	U	0.0746	MDL	0.202	PQL	mg/Kg	R	Q
ARSENIC	3.08		0.0807	MDL	0.403	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.357		0.0161	MDL	0.101	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-004-SA6-SB-1.5-2.5 ***Collected:*** 8/3/2011 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
CADMIUM	0.0831	J	0.0444	MDL	0.101	PQL	mg/Kg	J	Z
CHROMIUM	13.4		0.121	MDL	0.403	PQL	mg/Kg	J	E, E, A
COBALT	2.92		0.0202	MDL	0.101	PQL	mg/Kg	J	E, E, A
COPPER	4.78		0.0807	MDL	0.403	PQL	mg/Kg	J	E, A, Q
LEAD	3.56		0.0103	MDL	0.202	PQL	mg/Kg	J	E, E, A
NICKEL	6.83		0.101	MDL	0.403	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0143	U	0.0143	MDL	0.101	PQL	mg/Kg	UJ	E
THALLIUM	0.273		0.0302	MDL	0.101	PQL	mg/Kg	J	Q, E
VANADIUM	29.3		0.0222	MDL	0.101	PQL	mg/Kg	J	E, E, A
ZINC	62.0		0.565	MDL	3.02	PQL	mg/Kg	J	E, A

Sample ID: SL-011-SA6-SB-0.5-1.5 ***Collected:*** 8/3/2011 7:54:00 AM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.119	J	0.0622	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-011-SA6-SB-0.5-1.5 ***Collected:*** 8/3/2011 7:54:00 AM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	91.0		0.114	MDL	0.429	PQL	mg/Kg	J	E, E, A

Sample ID: SL-011-SA6-SB-0.5-1.5 ***Collected:*** 8/3/2011 7:54:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0793	U	0.0793	MDL	0.214	PQL	mg/Kg	R	Q
ARSENIC	3.72		0.0857	MDL	0.429	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.565		0.0171	MDL	0.107	PQL	mg/Kg	J	Q, E
CADMIUM	0.0677	J	0.0472	MDL	0.107	PQL	mg/Kg	J	Z
CHROMIUM	16.4		0.129	MDL	0.429	PQL	mg/Kg	J	E, E, A
COBALT	6.10		0.0214	MDL	0.107	PQL	mg/Kg	J	E, E, A
COPPER	16.4		0.0857	MDL	0.429	PQL	mg/Kg	J	E, A, Q
LEAD	4.93		0.0109	MDL	0.214	PQL	mg/Kg	J	E, E, A
NICKEL	8.74		0.107	MDL	0.429	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0323	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, E
THALLIUM	0.278		0.0322	MDL	0.107	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: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-011-SA6-SB-0.5-1.5 ***Collected:*** 8/3/2011 7:54:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	38.9		0.0236	MDL	0.107	PQL	mg/Kg	J	E, E, A
ZINC	57.5		0.600	MDL	3.22	PQL	mg/Kg	J	E, A

Sample ID: SL-188-SA5DN-SB-4.0-5.0 ***Collected:*** 8/3/2011 10:57:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.108	J	0.0667	MDL	0.460	PQL	mg/Kg	J	Z

Sample ID: SL-188-SA5DN-SB-4.0-5.0 ***Collected:*** 8/3/2011 10:57:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	161		0.122	MDL	0.460	PQL	mg/Kg	J	E, E, A

Sample ID: SL-188-SA5DN-SB-4.0-5.0 ***Collected:*** 8/3/2011 10:57:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.118	J	0.0852	MDL	0.230	PQL	mg/Kg	J	Z, Q
ARSENIC	7.46		0.0921	MDL	0.460	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.20		0.0184	MDL	0.115	PQL	mg/Kg	J	Q, E
CHROMIUM	36.1		0.138	MDL	0.460	PQL	mg/Kg	J	E, E, A
COBALT	15.6		0.0230	MDL	0.115	PQL	mg/Kg	J	E, E, A
COPPER	13.6		0.0921	MDL	0.460	PQL	mg/Kg	J	E, A, Q
LEAD	9.89		0.0117	MDL	0.230	PQL	mg/Kg	J	E, E, A
NICKEL	22.8		0.115	MDL	0.460	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0624	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z, E
THALLIUM	0.401		0.0345	MDL	0.115	PQL	mg/Kg	J	Q, E
VANADIUM	68.3		0.0253	MDL	0.115	PQL	mg/Kg	J	E, E, A
ZINC	75.5		0.644	MDL	3.45	PQL	mg/Kg	J	E, A

Sample ID: SL-188-SA5DN-SB-9.0-10.0 ***Collected:*** 8/3/2011 11:58:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.120	J	0.0658	MDL	0.454	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: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-188-SA5DN-SB-9.0-10.0** ***Collected:*** **8/3/2011 11:58:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	158		0.120	MDL	0.454	PQL	mg/Kg	J	E, E, A

Sample ID: **SL-188-SA5DN-SB-9.0-10.0** ***Collected:*** **8/3/2011 11:58:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.136	J	0.0839	MDL	0.227	PQL	mg/Kg	J	Z, Q
ARSENIC	8.25		0.0907	MDL	0.454	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.19		0.0181	MDL	0.113	PQL	mg/Kg	J	Q, E
CADMIUM	0.110	J	0.0499	MDL	0.113	PQL	mg/Kg	J	Z
CHROMIUM	39.0		0.136	MDL	0.454	PQL	mg/Kg	J	E, E, A
COBALT	13.5		0.0227	MDL	0.113	PQL	mg/Kg	J	E, E, A
COPPER	15.1		0.0907	MDL	0.454	PQL	mg/Kg	J	E, A, Q
LEAD	11.5		0.0116	MDL	0.227	PQL	mg/Kg	J	E, E, A
NICKEL	24.2		0.113	MDL	0.454	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0886	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z, E
THALLIUM	0.374		0.0340	MDL	0.113	PQL	mg/Kg	J	Q, E
VANADIUM	72.7		0.0250	MDL	0.113	PQL	mg/Kg	J	E, E, A
ZINC	74.5		0.635	MDL	3.40	PQL	mg/Kg	J	E, A

Sample ID: **SL-193-SA5DN-SB-4.0-5.0** ***Collected:*** **8/3/2011 2:00:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.113	J	0.0629	MDL	0.434	PQL	mg/Kg	J	Z

Sample ID: **SL-193-SA5DN-SB-4.0-5.0** ***Collected:*** **8/3/2011 2:00:00 PM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	185		0.115	MDL	0.434	PQL	mg/Kg	J	E, E, A

Sample ID: **SL-193-SA5DN-SB-4.0-5.0** ***Collected:*** **8/3/2011 2:00:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.170	J	0.0802	MDL	0.217	PQL	mg/Kg	J	Z, Q
ARSENIC	7.02		0.0867	MDL	0.434	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.10		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-193-SA5DN-SB-4.0-5.0** ***Collected:*** **8/3/2011 2:00:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	44.7		0.130	MDL	0.434	PQL	mg/Kg	J	E, E, A
COBALT	13.7		0.0217	MDL	0.108	PQL	mg/Kg	J	E, E, A
COPPER	24.9		0.0867	MDL	0.434	PQL	mg/Kg	J	E, A, Q
LEAD	12.8		0.0111	MDL	0.217	PQL	mg/Kg	J	E, E, A
NICKEL	31.8		0.108	MDL	0.434	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.503		0.0154	MDL	0.108	PQL	mg/Kg	J	E
THALLIUM	0.432		0.0325	MDL	0.108	PQL	mg/Kg	J	Q, E
VANADIUM	77.8		0.0238	MDL	0.108	PQL	mg/Kg	J	E, E, A
ZINC	116		0.607	MDL	3.25	PQL	mg/Kg	J	E, A

Sample ID: **SL-193-SA5DN-SB-9.0-10.0** ***Collected:*** **8/3/2011 3:00:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0753	J	0.0644	MDL	0.444	PQL	mg/Kg	J	Z

Sample ID: **SL-193-SA5DN-SB-9.0-10.0** ***Collected:*** **8/3/2011 3:00:00 PM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	138		0.118	MDL	0.444	PQL	mg/Kg	J	E, E, A

Sample ID: **SL-193-SA5DN-SB-9.0-10.0** ***Collected:*** **8/3/2011 3:00:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.133	J	0.0822	MDL	0.222	PQL	mg/Kg	J	Z, Q
ARSENIC	6.80		0.0888	MDL	0.444	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.01		0.0178	MDL	0.111	PQL	mg/Kg	J	Q, E
CHROMIUM	37.2		0.133	MDL	0.444	PQL	mg/Kg	J	E, E, A
COBALT	9.85		0.0222	MDL	0.111	PQL	mg/Kg	J	E, E, A
COPPER	14.7		0.0888	MDL	0.444	PQL	mg/Kg	J	E, A, Q
LEAD	9.46		0.0113	MDL	0.222	PQL	mg/Kg	J	E, E, A
NICKEL	22.0		0.111	MDL	0.444	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.179		0.0158	MDL	0.111	PQL	mg/Kg	J	E
THALLIUM	0.381		0.0333	MDL	0.111	PQL	mg/Kg	J	Q, E
VANADIUM	66.8		0.0244	MDL	0.111	PQL	mg/Kg	J	E, E, A
ZINC	71.1		0.622	MDL	3.33	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

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-188-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 10:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.53	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 2:00:00 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	0.57	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-9.0-10.0 *Collected:* 8/3/2011 3:00:00 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	0.51	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-002-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 2:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0990	J	0.0079	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA6-SB-9.0-10.0 *Collected:* 8/3/2011 2:33:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0112	J	0.0074	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 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
MERCURY	0.0220	J	0.0077	MDL	0.109	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-004-SA6-SB-1.5-2.5 *Collected:* 8/3/2011 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	0.0077	J	0.0072	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-188-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 10:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0080	J	0.0079	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-188-SA5DN-SB-9.0-10.0 *Collected:* 8/3/2011 11:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0222	J	0.0077	MDL	0.110	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C **Matrix: AQ**

Sample ID: EB23-SA5DN-SB-080311 *Collected:* 8/3/2011 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	4.40		0.508	MDL	1.02	PQL	ng/L	J	S

Method Category: SVOA

Method: 8015M **Matrix: AQ**

Sample ID: EB23-SA5DN-SB-080311 *Collected:* 8/3/2011 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
EFH (C12-C14)	0.10	U	0.10	MDL	0.60	PQL	mg/L	UJ	L
EFH (C15-C20)	0.10	U	0.10	MDL	0.60	PQL	mg/L	UJ	L
EFH (C21-C30)	0.10	U	0.10	MDL	0.60	PQL	mg/L	UJ	L
EFH (C30-C40)	0.10	U	0.10	MDL	0.60	PQL	mg/L	UJ	L
EFH (C8-C11)	0.10	U	0.10	MDL	0.60	PQL	mg/L	UJ	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-003-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 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 5460	2.9	J	1.2	MDL	3.8	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: AQ**

Sample ID: EB23-SA5DN-SB-080311 *Collected:* 8/3/2011 1:00:00 PM *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	10	U	10	MDL	29	PQL	ug/L	UJ	L
4,6-DINITRO-2-METHYLPHENOL	5	U	5	MDL	15	PQL	ug/L	UJ	L
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-002-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 2:30:00 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-DICHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
1,4-DICHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
BENZIDINE	1300	U	1300	MDL	3800	PQL	ug/Kg	UJ	Q
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q

Method Category: SVOA

Method: 8270C SIM **Matrix: AQ**

Sample ID: EB23-SA5DN-SB-080311 *Collected:* 8/3/2011 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	0.11	J	0.055	MDL	1.1	PQL	ug/L	J	Z
Butylbenzylphthalate	0.14	J	0.055	MDL	1.1	PQL	ug/L	J	Z
Diethylphthalate	0.091	J	0.055	MDL	1.1	PQL	ug/L	J	Z
Di-n-butylphthalate	0.32	J	0.055	MDL	1.1	PQL	ug/L	J	Z
Di-n-octylphthalate	0.22	J	0.055	MDL	1.1	PQL	ug/L	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: **SL-002-SA6-SB-4.0-5.0** ***Collected:*** **8/3/2011 2:30:00 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
BENZO(G,H,I)PERYLENE	0.81	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.5	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.8	J	6.8	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.8	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.84	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: **SL-002-SA6-SB-9.0-10.0** ***Collected:*** **8/3/2011 2:33:00 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
ANTHRACENE	0.65	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.89	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.98	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.3	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	1.5	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	0.80	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: **SL-003-SA6-SB-4.0-5.0** ***Collected:*** **8/3/2011 8:40:00 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(B)FLUORANTHENE	1.2	J	0.78	MDL	2.0	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.2	J	7.0	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	0.47	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: **SL-003-SA6-SB-8.5-9.5** ***Collected:*** **8/3/2011 8:44:00 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	7.3	J	6.6	MDL	20	PQL	ug/Kg	J	Z
Butylbenzylphthalate	6.6	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.0	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	0.98	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-004-SA6-SB-1.5-2.5 *Collected:* 8/3/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	9.2	J	6.2	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	13	J	6.2	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA6-SB-0.5-1.5 *Collected:* 8/3/2011 7:54:00 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
CHRYSENE	0.36	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-188-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 10:57:00 *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	0.59	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.76	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.3	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
ANTHRACENE	1.6	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.8	MDL	20	PQL	ug/Kg	J	Z
NAPHTHALENE	1.5	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-9.0-10.0 *Collected:* 8/3/2011 3:00:00 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
CHRYSENE	0.52	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8330A **Matrix: AQ**

Sample ID: EB23-SA5DN-SB-080311 *Collected:* 8/3/2011 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
4-AMINO-2,6-DINITROTOLUENE	0.54	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

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

* 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: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_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

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE215

Method Blank Outlier Report

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22448AB221736	8/15/2011 5:36:00 PM	BORON CALCIUM STRONTIUM	0.0067 mg/L 0.0748 mg/L 0.00056 mg/L	EB23-SA5DN-SB-080311

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
EB23-SA5DN-SB-080311(REA2)	BORON	0.0103 mg/L	0.0103U mg/L
EB23-SA5DN-SB-080311(REA2)	CALCIUM	0.0855 mg/L	0.0855U mg/L
EB23-SA5DN-SB-080311(REA2)	STRONTIUM	0.00066 mg/L	0.00066U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22108CB220608	8/12/2011 6:08:00 AM	ALUMINUM BORON CALCIUM IRON MAGNESIUM PHOSPHORUS STRONTIUM TIN	9.51 mg/Kg 0.347 mg/Kg 7.59 mg/Kg 4.32 mg/Kg 1.37 mg/Kg 0.863 mg/Kg 0.0365 mg/Kg 1.58 mg/Kg	SL-002-SA6-SB-4.0-5.0 SL-002-SA6-SB-9.0-10.0 SL-003-SA6-SB-4.0-5.0 SL-003-SA6-SB-8.5-9.5 SL-004-SA6-SB-1.5-2.5 SL-011-SA6-SB-0.5-1.5 SL-188-SA5DN-SB-4.0-5.0 SL-188-SA5DN-SB-9.0-10.0 SL-193-SA5DN-SB-4.0-5.0 SL-193-SA5DN-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-002-SA6-SB-4.0-5.0(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-002-SA6-SB-9.0-10.0(RES)	TIN	2.77 mg/Kg	2.77U mg/Kg
SL-003-SA6-SB-4.0-5.0(RES)	TIN	2.33 mg/Kg	2.33U mg/Kg
SL-003-SA6-SB-8.5-9.5(RES)	TIN	2.35 mg/Kg	2.35U mg/Kg
SL-004-SA6-SB-1.5-2.5(RES)	TIN	2.60 mg/Kg	2.60U mg/Kg
SL-011-SA6-SB-0.5-1.5(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-188-SA5DN-SB-4.0-5.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg
SL-188-SA5DN-SB-9.0-10.0(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-193-SA5DN-SB-4.0-5.0(RES)	TIN	2.52 mg/Kg	2.52U mg/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22126BB221123A	8/11/2011 11:23:00 AM	COPPER	0.206 mg/Kg	SL-002-SA6-SB-4.0-5.0 SL-002-SA6-SB-9.0-10.0 SL-003-SA6-SB-4.0-5.0 SL-003-SA6-SB-8.5-9.5 SL-004-SA6-SB-1.5-2.5 SL-011-SA6-SB-0.5-1.5 SL-188-SA5DN-SB-4.0-5.0 SL-188-SA5DN-SB-9.0-10.0 SL-193-SA5DN-SB-4.0-5.0 SL-193-SA5DN-SB-9.0-10.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **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-002-SA6-SB-9.0-10.0MS (SL-002-SA6-SB-4.0-5.0 SL-002-SA6-SB-9.0-10.0 SL-003-SA6-SB-4.0-5.0 SL-003-SA6-SB-8.5-9.5 SL-004-SA6-SB-1.5-2.5 SL-011-SA6-SB-0.5-1.5 SL-188-SA5DN-SB-4.0-5.0 SL-188-SA5DN-SB-9.0-10.0 SL-193-SA5DN-SB-4.0-5.0 SL-193-SA5DN-SB-9.0-10.0)	FLUORIDE	61	-	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-002-SA6-SB-4.0-5.0MSD (SL-002-SA6-SB-4.0-5.0)	2,4-DINITROPHENOL PENTACHLOROPHENOL	- -	- -	20.00-143.00 28.00-127.00	46 (30.00) 33 (30.00)	2,4-DINITROPHENOL PENTACHLOROPHENOL	J(all detects)
SL-002-SA6-SB-4.0-5.0MS **SL-002-SA6-SB-4.0-5.0MSD** (SL-002-SA6-SB-4.0-5.0)	1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZIDINE BIS(2-CHLOROETHOXY)METHA	- 66 29 62	61 62 - 65	63.00-109.00 70.00-100.00 35.00-141.00 75.00-104.00	- - - -	1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZIDINE BIS(2-CHLOROETHOXY)METH	J(all detects) UJ(all non-detects)

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

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
SL-002-SA6-SB-9.0-10.0DUP (SL-002-SA6-SB-4.0-5.0 SL-002-SA6-SB-9.0-10.0 SL-003-SA6-SB-4.0-5.0 SL-003-SA6-SB-8.5-9.5 SL-004-SA6-SB-1.5-2.5 SL-011-SA6-SB-0.5-1.5 SL-188-SA5DN-SB-4.0-5.0 SL-188-SA5DN-SB-9.0-10.0 SL-193-SA5DN-SB-4.0-5.0 SL-193-SA5DN-SB-9.0-10.0)	FLUORIDE	34	20.00	J (all detects) UJ (all non-detects)

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **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
P12172AQ320723A P12172AY320214A (EB23-SA5DN-SB-080311)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	48 49 48 51 44	50 49 46 46 44	69.00-125.00 77.00-125.00 68.00-124.00 80.00-121.00 46.00-103.00	- - - - -	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	J (all detects) UJ (all non-detects)

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12206AQ240500A P12206AQ240708A P12206AY240543A (EB23-SA5DN-SB-080311)	2,4-DIAMINO-6-NITROTOLUENE 2,6-Diamino-4-nitrotoluene 3-NITROTOLUENE PETN	123 123 110 133	- - 110 133	50.00-122.00 50.00-122.00 69.00-107.00 80.00-120.00	- - - -	2,4-DIAMINO-6-NITROTOLUEN 2,6-Diamino-4-nitrotoluene 3-NITROTOLUENE PETN	J(all detects)
P12206AQ240500A (EB23-SA5DN-SB-080311)	Tetryl	70	-	72.00-141.00	-	Tetryl	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8WBLCSQ260032 P8WBLCSY260057 (EB23-SA5DN-SB-080311)	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID	46 63 -	51 - -	52.00-131.00 65.00-126.00 10.00-69.00	- - 32 (30.00)	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHEN BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 7470A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22013EY220828 (EB23-SA5DN-SB-080311)	MERCURY	-	89	90.00-115.00	-	MERCURY	No Qual, SRM within QC Limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_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
P22126BQ221126A (SL-002-SA6-SB-4.0-5.0 SL -002-SA6-SB-9.0-10.0 SL -003-SA6-SB-4.0-5.0 SL -003-SA6-SB-8.5-9.5 SL -004-SA6-SB-1.5-2.5 SL -011-SA6-SB-0.5-1.5 SL -188-SA5DN -SB-4.0-5.0 SL -188-SA5DN -SB-9.0-10.0 SL -193-SA5DN -SB-4.0-5.0 SL -193-SA5DN -SB-9.0-10.0)	ANTIMONY	72	-	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
P22108CQ220612 (SL-002-SA6-SB-4.0-5.0 SL -002-SA6-SB-9.0-10.0 SL -003-SA6-SB-4.0-5.0 SL -003-SA6-SB-8.5-9.5 SL -004-SA6-SB-1.5-2.5 SL -011-SA6-SB-0.5-1.5 SL -188-SA5DN -SB-4.0-5.0 SL -188-SA5DN -SB-9.0-10.0 SL -193-SA5DN -SB-4.0-5.0 SL -193-SA5DN -SB-9.0-10.0)	ALUMINUM	132	-	80.00-120.00	-	ALUMINUM	No Qual, SRM within QC Limits
	TITANIUM	157	-	80.00-120.00	-	TITANIUM	

Surrogate Outlier Report

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB23-SA5DN-SB-080311	N-Nitrosodimethylamine-d6	173	50.00-150.00	All Target Analytes	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB23-SA5DN-SB-080311	BORON	J	0.0103	0.0500	PQL	mg/L	J (all detects)
	CALCIUM	J	0.0855	0.200	PQL	mg/L	
	STRONTIUM	J	0.00066	0.0050	PQL	mg/L	
	TITANIUM	J	0.00047	0.0100	PQL	mg/L	

Method: 8270C SIM
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB23-SA5DN-SB-080311	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.11	1.1	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.14	1.1	PQL	ug/L	
	Diethylphthalate	J	0.091	1.1	PQL	ug/L	
	Di-n-butylphthalate	J	0.32	1.1	PQL	ug/L	
	Di-n-octylphthalate	J	0.22	1.1	PQL	ug/L	

Method: 8330A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB23-SA5DN-SB-080311	4-AMINO-2,6-DINITROTOLUENE	J	0.54	0.60	PQL	ug/L	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA6-SB-4.0-5.0	TIN	J	2.55	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.17	5.59	PQL	mg/Kg	
SL-002-SA6-SB-9.0-10.0	TIN	J	2.77	10.6	PQL	mg/Kg	J (all detects)
SL-003-SA6-SB-4.0-5.0	TIN	J	2.33	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.73	5.58	PQL	mg/Kg	
SL-003-SA6-SB-8.5-9.5	BORON	J	5.37	5.38	PQL	mg/Kg	J (all detects)
	TIN	J	2.35	10.8	PQL	mg/Kg	
	Zirconium	J	0.838	5.38	PQL	mg/Kg	
SL-004-SA6-SB-1.5-2.5	BORON	J	3.82	5.14	PQL	mg/Kg	J (all detects)
	SODIUM	J	60.9	103	PQL	mg/Kg	
	TIN	J	2.60	10.3	PQL	mg/Kg	
SL-011-SA6-SB-0.5-1.5	BORON	J	4.55	5.15	PQL	mg/Kg	J (all detects)
	TIN	J	2.55	10.3	PQL	mg/Kg	
SL-188-SA5DN-SB-4.0-5.0	SODIUM	J	107	111	PQL	mg/Kg	J (all detects)
	TIN	J	2.69	11.1	PQL	mg/Kg	
	Zirconium	J	1.69	5.53	PQL	mg/Kg	
SL-188-SA5DN-SB-9.0-10.0	TIN	J	2.62	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.81	5.62	PQL	mg/Kg	
SL-193-SA5DN-SB-4.0-5.0	TIN	J	2.52	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.81	5.42	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-193-SA5DN-SB-9.0-10.0	TIN	J	2.69	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.50	5.50	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA6-SB-4.0-5.0	ANTIMONY	J	0.101	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.121	0.443	PQL	mg/Kg	
	SILVER	J	0.0516	0.111	PQL	mg/Kg	
SL-002-SA6-SB-9.0-10.0	ANTIMONY	J	0.110	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.127	0.432	PQL	mg/Kg	
	SILVER	J	0.0617	0.108	PQL	mg/Kg	
SL-003-SA6-SB-4.0-5.0	ANTIMONY	J	0.144	0.234	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.222	0.468	PQL	mg/Kg	
	SILVER	J	0.0460	0.117	PQL	mg/Kg	
SL-003-SA6-SB-8.5-9.5	CADMIUM	J	0.102	0.110	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0982	0.439	PQL	mg/Kg	
	SILVER	J	0.0423	0.110	PQL	mg/Kg	
SL-004-SA6-SB-1.5-2.5	CADMIUM	J	0.0831	0.101	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0623	0.403	PQL	mg/Kg	
SL-011-SA6-SB-0.5-1.5	CADMIUM	J	0.0677	0.107	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.119	0.429	PQL	mg/Kg	
	SILVER	J	0.0323	0.107	PQL	mg/Kg	
SL-188-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.118	0.230	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.108	0.460	PQL	mg/Kg	
	SILVER	J	0.0624	0.115	PQL	mg/Kg	
SL-188-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.136	0.227	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.110	0.113	PQL	mg/Kg	
	SELENIUM	J	0.120	0.454	PQL	mg/Kg	
	SILVER	J	0.0886	0.113	PQL	mg/Kg	
SL-193-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.170	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.113	0.434	PQL	mg/Kg	
SL-193-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.133	0.222	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0753	0.444	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-188-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.53	1.2	PQL	mg/Kg	J (all detects)
SL-193-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.57	1.1	PQL	mg/Kg	J (all detects)
SL-193-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.51	1.2	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA6-SB-4.0-5.0	MERCURY	J	0.0990	0.112	PQL	mg/Kg	J (all detects)
SL-002-SA6-SB-9.0-10.0	MERCURY	J	0.0112	0.105	PQL	mg/Kg	J (all detects)
SL-003-SA6-SB-4.0-5.0	MERCURY	J	0.0220	0.109	PQL	mg/Kg	J (all detects)
SL-004-SA6-SB-1.5-2.5	MERCURY	J	0.0077	0.103	PQL	mg/Kg	J (all detects)
SL-188-SA5DN-SB-4.0-5.0	MERCURY	J	0.0080	0.112	PQL	mg/Kg	J (all detects)
SL-188-SA5DN-SB-9.0-10.0	MERCURY	J	0.0222	0.110	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-003-SA6-SB-4.0-5.0	Aroclor 5460	J	2.9	3.8	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA6-SB-4.0-5.0	BENZO(G,H,I)PERYLENE	J	0.81	1.9	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.5	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.8	20	PQL	ug/Kg	
	CHRYSENE	J	1.8	1.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.84	1.9	PQL	ug/Kg	
SL-002-SA6-SB-9.0-10.0	ANTHRACENE	J	0.65	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.89	1.9	PQL	ug/Kg	
	BENZO(A)PYRENE	J	0.98	1.9	PQL	ug/Kg	
	CHRYSENE	J	1.3	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.5	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	0.80	1.9	PQL	ug/Kg	
	PYRENE	J	1.2	1.9	PQL	ug/Kg	
SL-003-SA6-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	1.2	2.0	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.2	21	PQL	ug/Kg	
	CHRYSENE	J	0.47	2.0	PQL	ug/Kg	
SL-003-SA6-SB-8.5-9.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.3	20	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	6.6	20	PQL	ug/Kg	
	CHRYSENE	J	1.0	1.8	PQL	ug/Kg	
	PYRENE	J	0.98	1.8	PQL	ug/Kg	
SL-004-SA6-SB-1.5-2.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.2	19	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	13	19	PQL	ug/Kg	
SL-011-SA6-SB-0.5-1.5	CHRYSENE	J	0.36	1.8	PQL	ug/Kg	J (all detects)
SL-188-SA5DN-SB-4.0-5.0	CHRYSENE	J	0.59	1.9	PQL	ug/Kg	J (all detects)
SL-193-SA5DN-SB-4.0-5.0	1-METHYLNAPHTHALENE	J	0.76	1.9	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.3	1.9	PQL	ug/Kg	
	ANTHRACENE	J	1.6	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	20	PQL	ug/Kg	
	NAPHTHALENE	J	1.5	1.9	PQL	ug/Kg	
SL-193-SA5DN-SB-9.0-10.0	CHRYSENE	J	0.52	1.9	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE215

Laboratory: LL

EDD Filename: DE215_v2.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag

LDC #: 26859B4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/17/17
SDG #: DE215 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: A

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)	NA	SKM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	~~FB=7~~ TB=7
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-002-SA6-SB-4.0-5.0	11	SL-193-SA5DN-SB-9.0-10.0	21	MB	31	
2	SL-002-SA6-SB-9.0-10.0	12		22		32	
3	SL-003-SA6-SB-4.0-5.0	13		23		33	
4	SL-003-SA6-SB-8.5-9.5	14		24		34	
5	SL-004-SA6-SB-1.5-2.5	15		25		35	
6	SL-011-SA6-SB-0.5-1.5	16		26		36	
7	EB23-SA5DN-SB-080311	17		27		37	
8	SL-188-SA5DN-SB-4.0-5.0	18		28		38	
9	SL-188-SA5DN-SB-9.0-10.0	19		29		39	
10	SL-193-SA5DN-SB-4.0-5.0	20		30		40	

Notes: _____

LDC #: 26859B4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 200X
Sample Concentration units, unless otherwise noted: ug/L
Associated Samples: All AQ
Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	7									
Ti			0.25	1.25	0.47									

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U". Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 26859B4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: W
2nd Reviewer: A

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: 8/3/11 Soil factor applied 100X
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All Soil Reason Code: F

Analyte	Blank ID	Sample Identification											
	7	Action Level	5	6									
B	10.3	5.15	3.8	4.6									
Ca	85.5	42.75											
Sr	0.66	0.33											
Ti	0.47	0.235											
Zn	17.2	8.6											

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

DE217

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
04-Aug-2011	SL-014-SA6-SB-4.0-5.0	6366533	N	3050B	6010B	III
04-Aug-2011	SL-014-SA6-SB-4.0-5.0	6366533	N	3050B	6020	III
04-Aug-2011	SL-014-SA6-SB-4.0-5.0	6366533	N	3060A	7199	III
04-Aug-2011	SL-014-SA6-SB-4.0-5.0	6366533	N	3550B	8082	III
04-Aug-2011	SL-014-SA6-SB-4.0-5.0	6366533	N	3550B	8270C	III
04-Aug-2011	SL-014-SA6-SB-4.0-5.0	6366533	N	3550B	8270C SIM	III
04-Aug-2011	SL-014-SA6-SB-4.0-5.0	6366533	N	METHOD	300.0	III
04-Aug-2011	SL-014-SA6-SB-4.0-5.0	6366533	N	METHOD	314.0	III
04-Aug-2011	SL-014-SA6-SB-4.0-5.0	6366533	N	METHOD	7471A	III
04-Aug-2011	SL-014-SA6-SB-9.0-10.0	6366534	N	3050B	6010B	III
04-Aug-2011	SL-014-SA6-SB-9.0-10.0	6366534	N	3050B	6020	III
04-Aug-2011	SL-014-SA6-SB-9.0-10.0	6366534	N	3060A	7199	III
04-Aug-2011	SL-014-SA6-SB-9.0-10.0	6366534	N	3550B	8082	III
04-Aug-2011	SL-014-SA6-SB-9.0-10.0	6366534	N	3550B	8270C	III
04-Aug-2011	SL-014-SA6-SB-9.0-10.0	6366534	N	3550B	8270C SIM	III
04-Aug-2011	SL-014-SA6-SB-9.0-10.0	6366534	N	METHOD	300.0	III
04-Aug-2011	SL-014-SA6-SB-9.0-10.0	6366534	N	METHOD	314.0	III
04-Aug-2011	SL-014-SA6-SB-9.0-10.0	6366534	N	METHOD	7471A	III
04-Aug-2011	SL-025-SA6-SB-4.0-5.0	6366542	N	3050B	6010B	III
04-Aug-2011	SL-025-SA6-SB-4.0-5.0	6366542	N	3050B	6020	III
04-Aug-2011	SL-025-SA6-SB-4.0-5.0	6366542	N	3060A	7199	III
04-Aug-2011	SL-025-SA6-SB-4.0-5.0	6366542	N	3550B	8082	III
04-Aug-2011	SL-025-SA6-SB-4.0-5.0	6366542	N	3550B	8270C	III
04-Aug-2011	SL-025-SA6-SB-4.0-5.0	6366542	N	3550B	8270C SIM	III
04-Aug-2011	SL-025-SA6-SB-4.0-5.0	6366542	N	METHOD	300.0	III
04-Aug-2011	SL-025-SA6-SB-4.0-5.0	6366542	N	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Aug-2011	SL-025-SA6-SB-4.0-5.0	6366542	N	METHOD	7471A	III
04-Aug-2011	SL-025-SA6-SB-9.0-10.0	6366543	N	3050B	6010B	III
04-Aug-2011	SL-025-SA6-SB-9.0-10.0	6366543	N	3050B	6020	III
04-Aug-2011	SL-025-SA6-SB-9.0-10.0	6366543	N	3060A	7199	III
04-Aug-2011	SL-025-SA6-SB-9.0-10.0	6366543	N	3550B	8082	III
04-Aug-2011	SL-025-SA6-SB-9.0-10.0	6366543	N	3550B	8270C	III
04-Aug-2011	SL-025-SA6-SB-9.0-10.0	6366543	N	3550B	8270C SIM	III
04-Aug-2011	SL-025-SA6-SB-9.0-10.0	6366543	N	METHOD	300.0	III
04-Aug-2011	SL-025-SA6-SB-9.0-10.0	6366543	N	METHOD	314.0	III
04-Aug-2011	SL-025-SA6-SB-9.0-10.0	6366543	N	METHOD	7471A	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0	6366535	N	3050B	6010B	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0	6366535	N	3050B	6020	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0	6366535	N	3060A	7199	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0	6366535	N	3550B	8082	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0	6366535	N	3550B	8270C	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0	6366535	N	3550B	8270C SIM	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0	6366535	N	METHOD	300.0	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0	6366535	N	METHOD	314.0	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0	6366535	N	METHOD	7471A	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MS	6366536	MS	3050B	6010B	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MS	6366536	MS	3050B	6020	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MS	6366536	MS	3060A	7199	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MS	6366536	MS	3550B	8082	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MS	6366536	MS	3550B	8270C	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MS	6366536	MS	3550B	8270C SIM	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MS	6366536	MS	METHOD	300.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MS	6366536	MS	METHOD	314.0	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MS	6366536	MS	METHOD	7471A	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MSD	6366537	MSD	3050B	6010B	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MSD	6366537	MSD	3050B	6020	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MSD	6366537	MSD	3550B	8082	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MSD	6366537	MSD	3550B	8270C	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MSD	6366537	MSD	3550B	8270C SIM	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MSD	6366537	MSD	METHOD	7471A	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 DUP	6366538	DUP	3050B	6010B	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 DUP	6366538	DUP	3050B	6020	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 DUP	6366538	DUP	3060A	7199	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 DUP	6366538	DUP	METHOD	300.0	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 DUP	6366538	DUP	METHOD	314.0	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 DUP	6366538	DUP	METHOD	7471A	III
04-Aug-2011	DUP11-SA6-QC-080411	6366544	FD	3050B	6010B	III
04-Aug-2011	DUP11-SA6-QC-080411	6366544	FD	3050B	6020	III
04-Aug-2011	DUP11-SA6-QC-080411	6366544	FD	3060A	7199	III
04-Aug-2011	DUP11-SA6-QC-080411	6366544	FD	3550B	8082	III
04-Aug-2011	DUP11-SA6-QC-080411	6366544	FD	3550B	8270C	III
04-Aug-2011	DUP11-SA6-QC-080411	6366544	FD	3550B	8270C SIM	III
04-Aug-2011	DUP11-SA6-QC-080411	6366544	FD	METHOD	300.0	III
04-Aug-2011	DUP11-SA6-QC-080411	6366544	FD	METHOD	314.0	III
04-Aug-2011	DUP11-SA6-QC-080411	6366544	FD	METHOD	7471A	III
04-Aug-2011	DUP11-SA6-QC-080411DUP	P366544D270317B	DUP	METHOD	314.0	III
04-Aug-2011	DUP11-SA6-QC-080411MS	P366544R270403B	MS	METHOD	314.0	III
04-Aug-2011	SL-019-SA6-SB-9.0-10.0	6366539	N	3050B	6010B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Aug-2011	SL-019-SA6-SB-9.0-10.0	6366539	N	3050B	6020	III
04-Aug-2011	SL-019-SA6-SB-9.0-10.0	6366539	N	3060A	7199	III
04-Aug-2011	SL-019-SA6-SB-9.0-10.0	6366539	N	3550B	8082	III
04-Aug-2011	SL-019-SA6-SB-9.0-10.0	6366539	N	3550B	8270C	III
04-Aug-2011	SL-019-SA6-SB-9.0-10.0	6366539	N	3550B	8270C SIM	III
04-Aug-2011	SL-019-SA6-SB-9.0-10.0	6366539	N	METHOD	300.0	III
04-Aug-2011	SL-019-SA6-SB-9.0-10.0	6366539	N	METHOD	314.0	III
04-Aug-2011	SL-019-SA6-SB-9.0-10.0	6366539	N	METHOD	7471A	III
04-Aug-2011	SL-006-SA6-SB-4.0-5.0	6366531	N	3050B	6010B	III
04-Aug-2011	SL-006-SA6-SB-4.0-5.0	6366531	N	3050B	6020	III
04-Aug-2011	SL-006-SA6-SB-4.0-5.0	6366531	N	3060A	7199	III
04-Aug-2011	SL-006-SA6-SB-4.0-5.0	6366531	N	3550B	8082	III
04-Aug-2011	SL-006-SA6-SB-4.0-5.0	6366531	N	3550B	8270C	III
04-Aug-2011	SL-006-SA6-SB-4.0-5.0	6366531	N	3550B	8270C SIM	III
04-Aug-2011	SL-006-SA6-SB-4.0-5.0	6366531	N	METHOD	300.0	III
04-Aug-2011	SL-006-SA6-SB-4.0-5.0	6366531	N	METHOD	314.0	III
04-Aug-2011	SL-006-SA6-SB-4.0-5.0	6366531	N	METHOD	7471A	III
04-Aug-2011	SL-006-SA6-SB-9.0-10.0	6366532	N	3050B	6010B	III
04-Aug-2011	SL-006-SA6-SB-9.0-10.0	6366532	N	3050B	6020	III
04-Aug-2011	SL-006-SA6-SB-9.0-10.0	6366532	N	3060A	7199	III
04-Aug-2011	SL-006-SA6-SB-9.0-10.0	6366532	N	3550B	8082	III
04-Aug-2011	SL-006-SA6-SB-9.0-10.0	6366532	N	3550B	8270C	III
04-Aug-2011	SL-006-SA6-SB-9.0-10.0	6366532	N	3550B	8270C SIM	III
04-Aug-2011	SL-006-SA6-SB-9.0-10.0	6366532	N	METHOD	300.0	III
04-Aug-2011	SL-006-SA6-SB-9.0-10.0	6366532	N	METHOD	314.0	III
04-Aug-2011	SL-006-SA6-SB-9.0-10.0	6366532	N	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Aug-2011	SL-024-SA6-SB-4.0-5.0	6366540	N	3050B	6010B	III
04-Aug-2011	SL-024-SA6-SB-4.0-5.0	6366540	N	3050B	6020	III
04-Aug-2011	SL-024-SA6-SB-4.0-5.0	6366540	N	3060A	7199	III
04-Aug-2011	SL-024-SA6-SB-4.0-5.0	6366540	N	3550B	8082	III
04-Aug-2011	SL-024-SA6-SB-4.0-5.0	6366540	N	3550B	8270C	III
04-Aug-2011	SL-024-SA6-SB-4.0-5.0	6366540	N	3550B	8270C SIM	III
04-Aug-2011	SL-024-SA6-SB-4.0-5.0	6366540	N	METHOD	300.0	III
04-Aug-2011	SL-024-SA6-SB-4.0-5.0	6366540	N	METHOD	314.0	III
04-Aug-2011	SL-024-SA6-SB-4.0-5.0	6366540	N	METHOD	6850	III
04-Aug-2011	SL-024-SA6-SB-4.0-5.0	6366540	N	METHOD	7471A	III
04-Aug-2011	SL-024-SA6-SB-9.0-10.0	6366541	N	3050B	6010B	III
04-Aug-2011	SL-024-SA6-SB-9.0-10.0	6366541	N	3050B	6020	III
04-Aug-2011	SL-024-SA6-SB-9.0-10.0	6366541	N	3060A	7199	III
04-Aug-2011	SL-024-SA6-SB-9.0-10.0	6366541	N	3550B	8082	III
04-Aug-2011	SL-024-SA6-SB-9.0-10.0	6366541	N	3550B	8270C	III
04-Aug-2011	SL-024-SA6-SB-9.0-10.0	6366541	N	3550B	8270C SIM	III
04-Aug-2011	SL-024-SA6-SB-9.0-10.0	6366541	N	METHOD	300.0	III
04-Aug-2011	SL-024-SA6-SB-9.0-10.0	6366541	N	METHOD	314.0	III
04-Aug-2011	SL-024-SA6-SB-9.0-10.0	6366541	N	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SL-006-SA6-SB-4.0-5.0 **Collected:** 8/4/2011 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	5.3		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA6-SB-9.0-10.0 **Collected:** 8/4/2011 11:50:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.92	U	0.92	MDL	1.2	PQL	mg/Kg	UJ	Q

Sample ID: SL-014-SA6-SB-4.0-5.0 **Collected:** 8/4/2011 7:55:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.2		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-014-SA6-SB-9.0-10.0 **Collected:** 8/4/2011 8:00:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.8		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-019-SA6-SB-4.0-5.0 **Collected:** 8/4/2011 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	5.1		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-019-SA6-SB-9.0-10.0 **Collected:** 8/4/2011 11:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.4		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-024-SA6-SB-4.0-5.0 **Collected:** 8/4/2011 2:50:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.4		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-024-SA6-SB-9.0-10.0 **Collected:** 8/4/2011 2:55:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.88	MDL	1.1	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: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SL-025-SA6-SB-4.0-5.0 ***Collected:*** 8/4/2011 9:00:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.9		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-025-SA6-SB-9.0-10.0 ***Collected:*** 8/4/2011 9:05:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.8		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: DUP11-SA6-QC-080411 ***Collected:*** 8/4/2011 11:10:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.00	J	0.389	MDL	5.40	PQL	mg/Kg	J	Z
CALCIUM	10600		2.70	MDL	21.6	PQL	mg/Kg	J	E, E
PHOSPHORUS	256		0.378	MDL	10.8	PQL	mg/Kg	J	Q
TIN	3.14	J	0.346	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	3.93	J	0.497	MDL	5.40	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA6-SB-4.0-5.0 ***Collected:*** 8/4/2011 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
CALCIUM	1830		2.66	MDL	21.3	PQL	mg/Kg	J	E, E
PHOSPHORUS	225		0.373	MDL	10.6	PQL	mg/Kg	J	Q
TIN	3.07	J	0.341	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	3.05	J	0.490	MDL	5.32	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA6-SB-9.0-10.0 ***Collected:*** 8/4/2011 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
CALCIUM	1820		2.71	MDL	21.7	PQL	mg/Kg	J	E, E
PHOSPHORUS	302		0.379	MDL	10.8	PQL	mg/Kg	J	Q
SODIUM	80.2	J	6.45	MDL	108	PQL	mg/Kg	J	Z
TIN	2.69	J	0.347	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	3.42	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

Data Qualifier Summary

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-014-SA6-SB-4.0-5.0** ***Collected:*** **8/4/2011 7:55:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	31200		2.72	MDL	21.8	PQL	mg/Kg	J	E, E
PHOSPHORUS	316		0.381	MDL	10.9	PQL	mg/Kg	J	Q
TIN	3.03	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.67	J	0.501	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: **SL-014-SA6-SB-9.0-10.0** ***Collected:*** **8/4/2011 8:00:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.99	J	0.394	MDL	5.47	PQL	mg/Kg	J	Z
CALCIUM	2880		2.74	MDL	21.9	PQL	mg/Kg	J	E, E
PHOSPHORUS	186		0.383	MDL	10.9	PQL	mg/Kg	J	Q
TIN	3.13	J	0.350	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.20	J	0.503	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: **SL-019-SA6-SB-4.0-5.0** ***Collected:*** **8/4/2011 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
CALCIUM	6430		2.69	MDL	21.5	PQL	mg/Kg	J	E, E
PHOSPHORUS	247		0.376	MDL	10.7	PQL	mg/Kg	J	Q
TIN	3.52	J	0.344	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	3.20	J	0.494	MDL	5.37	PQL	mg/Kg	J	Z

Sample ID: **SL-019-SA6-SB-9.0-10.0** ***Collected:*** **8/4/2011 11:15:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.10	J	0.381	MDL	5.29	PQL	mg/Kg	J	Z
CALCIUM	5820		2.65	MDL	21.2	PQL	mg/Kg	J	E, E
PHOSPHORUS	279		0.371	MDL	10.6	PQL	mg/Kg	J	Q
TIN	3.05	J	0.339	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	3.06	J	0.487	MDL	5.29	PQL	mg/Kg	J	Z

Sample ID: **SL-024-SA6-SB-4.0-5.0** ***Collected:*** **8/4/2011 2:50:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.80	J	0.381	MDL	5.29	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: DE217 **Laboratory:** LL

EDD Filename: DE217_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-024-SA6-SB-4.0-5.0 ***Collected:*** 8/4/2011 2:50:00 PM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2020		2.64	MDL	21.2	PQL	mg/Kg	J	E, E
PHOSPHORUS	244		0.370	MDL	10.6	PQL	mg/Kg	J	Q
SODIUM	104	J	6.29	MDL	106	PQL	mg/Kg	J	Z
TIN	3.12	J	0.338	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.91	J	0.486	MDL	5.29	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA6-SB-9.0-10.0 ***Collected:*** 8/4/2011 2:55:00 PM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1790		2.67	MDL	21.3	PQL	mg/Kg	J	E, E
PHOSPHORUS	194		0.373	MDL	10.7	PQL	mg/Kg	J	Q
SODIUM	104	J	6.34	MDL	107	PQL	mg/Kg	J	Z
TIN	3.09	J	0.341	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	3.50	J	0.490	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: SL-025-SA6-SB-4.0-5.0 ***Collected:*** 8/4/2011 9:00:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2110		2.68	MDL	21.4	PQL	mg/Kg	J	E, E
PHOSPHORUS	194		0.375	MDL	10.7	PQL	mg/Kg	J	Q
TIN	3.20	J	0.343	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	3.55	J	0.493	MDL	5.35	PQL	mg/Kg	J	Z

Sample ID: SL-025-SA6-SB-9.0-10.0 ***Collected:*** 8/4/2011 9:05:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.08	J	0.396	MDL	5.51	PQL	mg/Kg	J	Z
CALCIUM	2110		2.75	MDL	22.0	PQL	mg/Kg	J	E, E
PHOSPHORUS	167		0.385	MDL	11.0	PQL	mg/Kg	J	Q
SODIUM	104	J	6.55	MDL	110	PQL	mg/Kg	J	Z
TIN	3.22	J	0.352	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	3.07	J	0.507	MDL	5.51	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: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **DUP11-SA6-QC-080411** ***Collected:*** **8/4/2011 11:10:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.139	J	0.0621	MDL	0.428	PQL	mg/Kg	J	Z, Q

Sample ID: **DUP11-SA6-QC-080411** ***Collected:*** **8/4/2011 11:10:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.870		0.0535	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: **DUP11-SA6-QC-080411** ***Collected:*** **8/4/2011 11:10:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.113	MDL	0.428	PQL	mg/Kg	J	E

Sample ID: **DUP11-SA6-QC-080411** ***Collected:*** **8/4/2011 11:10:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0817	J	0.0792	MDL	0.214	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.27		0.0856	MDL	0.428	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.858		0.0171	MDL	0.107	PQL	mg/Kg	J	Q, E
CADMIUM	0.172		0.0471	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	19.9		0.128	MDL	0.428	PQL	mg/Kg	J	Q
COBALT	6.84		0.0214	MDL	0.107	PQL	mg/Kg	J	Q, E
LEAD	8.38		0.0109	MDL	0.214	PQL	mg/Kg	J	Q, E
NICKEL	12.9		0.107	MDL	0.428	PQL	mg/Kg	J	Q
SILVER	0.0590	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.309		0.0321	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	40.5		0.0235	MDL	0.107	PQL	mg/Kg	J	Q
ZINC	76.7		0.599	MDL	3.21	PQL	mg/Kg	J	E

Sample ID: **SL-006-SA6-SB-4.0-5.0** ***Collected:*** **8/4/2011 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	0.133	J	0.0630	MDL	0.434	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-006-SA6-SB-4.0-5.0 ***Collected:*** 8/4/2011 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	0.898		0.0543	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA6-SB-4.0-5.0 ***Collected:*** 8/4/2011 11:45:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	110		0.115	MDL	0.434	PQL	mg/Kg	J	E

Sample ID: SL-006-SA6-SB-4.0-5.0 ***Collected:*** 8/4/2011 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	0.0803	U	0.0803	MDL	0.217	PQL	mg/Kg	UJ	Q
ARSENIC	5.07		0.0869	MDL	0.434	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.898		0.0174	MDL	0.109	PQL	mg/Kg	J	Q, E
CADMIUM	0.0565	J	0.0478	MDL	0.109	PQL	mg/Kg	J	Z, Q
CHROMIUM	18.1		0.130	MDL	0.434	PQL	mg/Kg	J	Q
COBALT	6.26		0.0217	MDL	0.109	PQL	mg/Kg	J	Q, E
LEAD	7.18		0.0111	MDL	0.217	PQL	mg/Kg	J	Q, E
NICKEL	11.8		0.109	MDL	0.434	PQL	mg/Kg	J	Q
SILVER	0.0572	J	0.0154	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.336		0.0326	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	38.9		0.0239	MDL	0.109	PQL	mg/Kg	J	Q
ZINC	62.4		0.608	MDL	3.26	PQL	mg/Kg	J	E

Sample ID: SL-006-SA6-SB-9.0-10.0 ***Collected:*** 8/4/2011 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	0.224	J	0.0641	MDL	0.442	PQL	mg/Kg	J	Z, Q

Sample ID: SL-006-SA6-SB-9.0-10.0 ***Collected:*** 8/4/2011 11:50:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.924		0.0553	MDL	0.111	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: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-006-SA6-SB-9.0-10.0** ***Collected:*** **8/4/2011 11:50:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	152		0.117	MDL	0.442	PQL	mg/Kg	J	E

Sample ID: **SL-006-SA6-SB-9.0-10.0** ***Collected:*** **8/4/2011 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	0.0924	J	0.0818	MDL	0.221	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.65		0.0884	MDL	0.442	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.802		0.0177	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.313		0.0486	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	21.6		0.133	MDL	0.442	PQL	mg/Kg	J	Q
COBALT	8.59		0.0221	MDL	0.111	PQL	mg/Kg	J	Q, E
LEAD	7.64		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, E
NICKEL	18.0		0.111	MDL	0.442	PQL	mg/Kg	J	Q
SILVER	0.0522	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.390		0.0332	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	41.1		0.0243	MDL	0.111	PQL	mg/Kg	J	Q
ZINC	81.7		0.619	MDL	3.32	PQL	mg/Kg	J	E

Sample ID: **SL-014-SA6-SB-4.0-5.0** ***Collected:*** **8/4/2011 7:55:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.201	J	0.0626	MDL	0.431	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-014-SA6-SB-4.0-5.0** ***Collected:*** **8/4/2011 7:55:00 AM** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.652		0.0539	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: **SL-014-SA6-SB-4.0-5.0** ***Collected:*** **8/4/2011 7:55:00 AM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	126		0.114	MDL	0.431	PQL	mg/Kg	J	E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-014-SA6-SB-4.0-5.0** ***Collected:*** **8/4/2011 7:55:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0952	J	0.0798	MDL	0.216	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.79		0.0863	MDL	0.431	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.801		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.341		0.0475	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	32.4		0.129	MDL	0.431	PQL	mg/Kg	J	Q
COBALT	10.2		0.0216	MDL	0.108	PQL	mg/Kg	J	Q, E
LEAD	9.81		0.0110	MDL	0.216	PQL	mg/Kg	J	Q, E
NICKEL	20.3		0.108	MDL	0.431	PQL	mg/Kg	J	Q
SILVER	0.0300	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.369		0.0324	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	60.1		0.0237	MDL	0.108	PQL	mg/Kg	J	Q
ZINC	72.1		0.604	MDL	3.24	PQL	mg/Kg	J	E

Sample ID: **SL-014-SA6-SB-9.0-10.0** ***Collected:*** **8/4/2011 8:00:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0820	J	0.0616	MDL	0.425	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-014-SA6-SB-9.0-10.0** ***Collected:*** **8/4/2011 8:00:00 AM** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.03		0.0531	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: **SL-014-SA6-SB-9.0-10.0** ***Collected:*** **8/4/2011 8:00:00 AM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	115		0.113	MDL	0.425	PQL	mg/Kg	J	E

Sample ID: **SL-014-SA6-SB-9.0-10.0** ***Collected:*** **8/4/2011 8:00:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0786	U	0.0786	MDL	0.212	PQL	mg/Kg	UJ	Q
ARSENIC	5.60		0.0850	MDL	0.425	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.909		0.0170	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.132		0.0467	MDL	0.106	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-014-SA6-SB-9.0-10.0 ***Collected:*** 8/4/2011 8:00:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	20.7		0.127	MDL	0.425	PQL	mg/Kg	J	Q
COBALT	7.80		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, E
LEAD	8.41		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, E
NICKEL	13.8		0.106	MDL	0.425	PQL	mg/Kg	J	Q
SILVER	0.0568	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.334		0.0319	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	43.0		0.0234	MDL	0.106	PQL	mg/Kg	J	Q
ZINC	74.5		0.595	MDL	3.19	PQL	mg/Kg	J	E

Sample ID: SL-019-SA6-SB-4.0-5.0 ***Collected:*** 8/4/2011 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	0.140	J	0.0636	MDL	0.439	PQL	mg/Kg	J	Z, Q

Sample ID: SL-019-SA6-SB-4.0-5.0 ***Collected:*** 8/4/2011 11:05:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.836		0.0548	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-019-SA6-SB-4.0-5.0 ***Collected:*** 8/4/2011 11:05:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	114		0.116	MDL	0.439	PQL	mg/Kg	J	E

Sample ID: SL-019-SA6-SB-4.0-5.0 ***Collected:*** 8/4/2011 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	0.0895	J	0.0811	MDL	0.219	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.87		0.0877	MDL	0.439	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.863		0.0175	MDL	0.110	PQL	mg/Kg	J	Q, E
CADMIUM	0.155		0.0482	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	18.7		0.132	MDL	0.439	PQL	mg/Kg	J	Q
COBALT	6.27		0.0219	MDL	0.110	PQL	mg/Kg	J	Q, E
LEAD	8.23		0.0112	MDL	0.219	PQL	mg/Kg	J	Q, E
NICKEL	11.8		0.110	MDL	0.439	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: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-019-SA6-SB-4.0-5.0** ***Collected:*** **8/4/2011 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
SILVER	0.0614	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.358		0.0329	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	39.7		0.0241	MDL	0.110	PQL	mg/Kg	J	Q
ZINC	83.5		0.614	MDL	3.29	PQL	mg/Kg	J	E

Sample ID: **SL-019-SA6-SB-9.0-10.0** ***Collected:*** **8/4/2011 11:15:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.129	J	0.0608	MDL	0.420	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-019-SA6-SB-9.0-10.0** ***Collected:*** **8/4/2011 11:15:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	2.33		0.0524	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: **SL-019-SA6-SB-9.0-10.0** ***Collected:*** **8/4/2011 11:15:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	118		0.111	MDL	0.420	PQL	mg/Kg	J	E

Sample ID: **SL-019-SA6-SB-9.0-10.0** ***Collected:*** **8/4/2011 11:15:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0776	U	0.0776	MDL	0.210	PQL	mg/Kg	UJ	Q
ARSENIC	5.96		0.0839	MDL	0.420	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.969		0.0168	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	0.135		0.0462	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	24.0		0.126	MDL	0.420	PQL	mg/Kg	J	Q
COBALT	7.35		0.0210	MDL	0.105	PQL	mg/Kg	J	Q, E
LEAD	8.19		0.0107	MDL	0.210	PQL	mg/Kg	J	Q, E
NICKEL	14.4		0.105	MDL	0.420	PQL	mg/Kg	J	Q
SILVER	0.0601	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.368		0.0315	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	45.1		0.0231	MDL	0.105	PQL	mg/Kg	J	Q
ZINC	76.4		0.587	MDL	3.15	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: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-024-SA6-SB-4.0-5.0** ***Collected:*** **8/4/2011 2:50:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.164	J	0.0613	MDL	0.423	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-024-SA6-SB-4.0-5.0** ***Collected:*** **8/4/2011 2:50:00 PM** ***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		0.0529	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: **SL-024-SA6-SB-4.0-5.0** ***Collected:*** **8/4/2011 2:50:00 PM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	130		0.112	MDL	0.423	PQL	mg/Kg	J	E

Sample ID: **SL-024-SA6-SB-4.0-5.0** ***Collected:*** **8/4/2011 2:50:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0976	J	0.0783	MDL	0.212	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.13		0.0846	MDL	0.423	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.962		0.0169	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.0965	J	0.0465	MDL	0.106	PQL	mg/Kg	J	Z, Q
CHROMIUM	22.6		0.127	MDL	0.423	PQL	mg/Kg	J	Q
COBALT	7.80		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, E
LEAD	7.74		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, E
NICKEL	15.4		0.106	MDL	0.423	PQL	mg/Kg	J	Q
SILVER	0.0448	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.393		0.0317	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	47.6		0.0233	MDL	0.106	PQL	mg/Kg	J	Q
ZINC	71.1		0.592	MDL	3.17	PQL	mg/Kg	J	E

Sample ID: **SL-024-SA6-SB-9.0-10.0** ***Collected:*** **8/4/2011 2:55:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.110	J	0.0637	MDL	0.439	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-024-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 2:55:00 PM *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.54		0.0549	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-024-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 2:55:00 PM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	192		0.116	MDL	0.439	PQL	mg/Kg	J	E

Sample ID: SL-024-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 2:55:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0812	U	0.0812	MDL	0.220	PQL	mg/Kg	UJ	Q
ARSENIC	8.43		0.0878	MDL	0.439	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.36		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, E
CADMIUM	0.0753	J	0.0483	MDL	0.110	PQL	mg/Kg	J	Z, Q
CHROMIUM	30.7		0.132	MDL	0.439	PQL	mg/Kg	J	Q
COBALT	13.5		0.0220	MDL	0.110	PQL	mg/Kg	J	Q, E
LEAD	11.7		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, E
NICKEL	22.6		0.110	MDL	0.439	PQL	mg/Kg	J	Q
SILVER	0.135		0.0156	MDL	0.110	PQL	mg/Kg	J	Q
THALLIUM	0.452		0.0329	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	65.5		0.0241	MDL	0.110	PQL	mg/Kg	J	Q
ZINC	86.6		0.615	MDL	3.29	PQL	mg/Kg	J	E

Sample ID: SL-025-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 9:00:00 AM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.156	J	0.0591	MDL	0.408	PQL	mg/Kg	J	Z, Q

Sample ID: SL-025-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 9:00:00 AM *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.29		0.0510	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: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-025-SA6-SB-4.0-5.0** ***Collected:*** **8/4/2011 9:00:00 AM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	179		0.108	MDL	0.408	PQL	mg/Kg	J	E

Sample ID: **SL-025-SA6-SB-4.0-5.0** ***Collected:*** **8/4/2011 9:00:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0755	U	0.0755	MDL	0.204	PQL	mg/Kg	UJ	Q
ARSENIC	8.73		0.0816	MDL	0.408	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.29		0.0163	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	0.0814	J	0.0449	MDL	0.102	PQL	mg/Kg	J	Z, Q
CHROMIUM	34.1		0.122	MDL	0.408	PQL	mg/Kg	J	Q
COBALT	12.8		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, E
LEAD	10.5		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, E
NICKEL	24.8		0.102	MDL	0.408	PQL	mg/Kg	J	Q
SILVER	0.0886	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.467		0.0306	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	66.3		0.0224	MDL	0.102	PQL	mg/Kg	J	Q
ZINC	81.4		0.571	MDL	3.06	PQL	mg/Kg	J	E

Sample ID: **SL-025-SA6-SB-9.0-10.0** ***Collected:*** **8/4/2011 9:05:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0954	J	0.0614	MDL	0.424	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-025-SA6-SB-9.0-10.0** ***Collected:*** **8/4/2011 9:05:00 AM** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.870		0.0529	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: **SL-025-SA6-SB-9.0-10.0** ***Collected:*** **8/4/2011 9:05:00 AM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	107		0.112	MDL	0.424	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: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS
Method: 6020 **Matrix: SO**

Sample ID: SL-025-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 9:05:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0784	U	0.0784	MDL	0.212	PQL	mg/Kg	UJ	Q
ARSENIC	6.40		0.0847	MDL	0.424	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.905		0.0169	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.0468	J	0.0466	MDL	0.106	PQL	mg/Kg	J	Z, Q
CHROMIUM	22.8		0.127	MDL	0.424	PQL	mg/Kg	J	Q
COBALT	7.03		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, E
LEAD	7.24		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, E
NICKEL	16.1		0.106	MDL	0.424	PQL	mg/Kg	J	Q
SILVER	0.0623	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.286		0.0318	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	46.6		0.0233	MDL	0.106	PQL	mg/Kg	J	Q
ZINC	59.6		0.593	MDL	3.18	PQL	mg/Kg	J	E

Method Category: METALS
Method: 7199 **Matrix: SO**

Sample ID: SL-006-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 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	0.48	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 2:55:00 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	0.50	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-025-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 9:00:00 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	0.49	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: DUP11-SA6-QC-080411 ***Collected:*** 8/4/2011 11:10:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.192		0.0074	MDL	0.105	PQL	mg/Kg	J	FD

Sample ID: SL-006-SA6-SB-4.0-5.0 ***Collected:*** 8/4/2011 11:45:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0110	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA6-SB-9.0-10.0 ***Collected:*** 8/4/2011 8:00:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0218	J	0.0077	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-019-SA6-SB-4.0-5.0 ***Collected:*** 8/4/2011 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
MERCURY	0.0311	J	0.0077	MDL	0.109	PQL	mg/Kg	J	Z, FD

Sample ID: SL-019-SA6-SB-9.0-10.0 ***Collected:*** 8/4/2011 11:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0136	J	0.0073	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA6-SB-4.0-5.0 ***Collected:*** 8/4/2011 2:50:00 PM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0099	J	0.0074	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA6-SB-9.0-10.0 ***Collected:*** 8/4/2011 2:55:00 PM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0262	J	0.0075	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-025-SA6-SB-4.0-5.0 ***Collected:*** 8/4/2011 9:00:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0090	J	0.0071	MDL	0.100	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-025-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 9:05:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0084	J	0.0075	MDL	0.107	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: DUP11-SA6-QC-080411 *Collected:* 8/4/2011 11:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	13		0.36	MDL	1.9	PQL	ug/Kg	J	FD
AROCLOR 1260	15		0.43	MDL	1.9	PQL	ug/Kg	J	FD

Sample ID: SL-006-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 11:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.8	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-019-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 11:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	18	U	18	MDL	93	PQL	ug/Kg	UJ	FD
AROCLOR 1260	700		21	MDL	93	PQL	ug/Kg	J	FD

Sample ID: SL-024-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 2:50:00 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	0.47	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-024-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 2:55:00 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	0.97	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: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-025-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 9:00:00 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
AROCLOR 1254	1.1	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-025-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 9:05:00 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
AROCLOR 1254	1.0	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: DUP11-SA6-QC-080411 *Collected:* 8/4/2011 11:10:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-006-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 11:45:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-006-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 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
BENZOIC ACID	190	U	190	MDL	560	PQL	ug/Kg	UJ	L

Sample ID: SL-014-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 7:55:00 AM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	190	U	190	MDL	560	PQL	ug/Kg	UJ	L

Sample ID: SL-014-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 8:00:00 AM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-019-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 11:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1300	U	1300	MDL	3700	PQL	ug/Kg	UJ	Q
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-019-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 11:15:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-024-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 2:50:00 PM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	180	U	180	MDL	540	PQL	ug/Kg	UJ	L

Sample ID: SL-024-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 2:55:00 PM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-025-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 9:00:00 AM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	180	U	180	MDL	540	PQL	ug/Kg	UJ	L

Sample ID: SL-025-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 9:05:00 AM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Method Category: SVOA

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

Sample ID: DUP11-SA6-QC-080411 *Collected:* 8/4/2011 11:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.36	U	0.36	MDL	1.8	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: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: DUP11-SA6-QC-080411 ***Collected:*** 8/4/2011 11:10:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(A)PYRENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(B)FLUORANTHENE	0.85	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(G,H,I)PERYLENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(K)FLUORANTHENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
BIS(2-ETHYLHEXYL)PHTHALATE	6.6	U	6.6	MDL	20	PQL	ug/Kg	UJ	FD
CHRYSENE	0.50	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z, FD
DIBENZO(A,H)ANTHRACENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
FLUORANTHENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
FLUORENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
INDENO(1,2,3-CD)PYRENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
NAPHTHALENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
PHENANTHRENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
PYRENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD

Sample ID: SL-006-SA6-SB-9.0-10.0 ***Collected:*** 8/4/2011 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
ANTHRACENE	0.77	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.4	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	0.66	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
NAPHTHALENE	1.2	J	0.75	MDL	1.9	PQL	ug/Kg	U	B
PHENANTHRENE	0.91	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-014-SA6-SB-4.0-5.0 ***Collected:*** 8/4/2011 7:55:00 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	1.6	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
Butylbenzylphthalate	15	J	6.7	MDL	20	PQL	ug/Kg	J	Z
NAPHTHALENE	0.89	J	0.74	MDL	1.9	PQL	ug/Kg	U	B

Sample ID: SL-019-SA6-SB-4.0-5.0 ***Collected:*** 8/4/2011 11:05:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.8	J	0.37	MDL	1.8	PQL	ug/Kg	J	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: **SL-019-SA6-SB-4.0-5.0** ***Collected:*** **8/4/2011 11:05:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	2.5		0.73	MDL	1.8	PQL	ug/Kg	J	FD
BENZO(A)PYRENE	3.5		0.73	MDL	1.8	PQL	ug/Kg	J	FD
BENZO(B)FLUORANTHENE	9.4		0.73	MDL	1.8	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	3.9		0.73	MDL	1.8	PQL	ug/Kg	J	FD
BENZO(K)FLUORANTHENE	1.8		0.73	MDL	1.8	PQL	ug/Kg	J	FD
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.6	MDL	20	PQL	ug/Kg	J	Z, FD
CHRYSENE	6.0		0.37	MDL	1.8	PQL	ug/Kg	J	FD
DIBENZO(A,H)ANTHRACENE	2.1		0.73	MDL	1.8	PQL	ug/Kg	J	FD
FLUORANTHENE	2.1		0.73	MDL	1.8	PQL	ug/Kg	J	FD
FLUORENE	0.80	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
INDENO(1,2,3-CD)PYRENE	1.9		0.73	MDL	1.8	PQL	ug/Kg	J	FD
NAPHTHALENE	0.77	J	0.73	MDL	1.8	PQL	ug/Kg	UJ	B, FD
PHENANTHRENE	1.7	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
PYRENE	2.2		0.73	MDL	1.8	PQL	ug/Kg	J	FD

Sample ID: **SL-019-SA6-SB-9.0-10.0** ***Collected:*** **8/4/2011 11:15:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.84	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.1	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	0.41	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: **SL-024-SA6-SB-4.0-5.0** ***Collected:*** **8/4/2011 2:50:00 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
NAPHTHALENE	0.74	J	0.72	MDL	1.8	PQL	ug/Kg	U	B

Sample ID: **SL-025-SA6-SB-4.0-5.0** ***Collected:*** **8/4/2011 9:00:00 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	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.79	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.4	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	6.8	J	6.4	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	1.0	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

Data Qualifier Summary

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_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

Data Qualifier Summary

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE217

Method Blank Outlier Report

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22208CB221854	8/12/2011 6:54:00 PM	CALCIUM	4.37 mg/Kg	DUP11-SA6-QC-080411
		IRON	4.33 mg/Kg	SL-006-SA6-SB-4.0-5.0
		PHOSPHORUS	1.72 mg/Kg	SL-006-SA6-SB-9.0-10.0
		STRONTIUM	0.0260 mg/Kg	SL-014-SA6-SB-4.0-5.0
		TIN	1.56 mg/Kg	SL-014-SA6-SB-9.0-10.0
				SL-019-SA6-SB-4.0-5.0
				SL-019-SA6-SB-9.0-10.0
				SL-024-SA6-SB-4.0-5.0
				SL-024-SA6-SB-9.0-10.0
				SL-025-SA6-SB-4.0-5.0
				SL-025-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
DUP11-SA6-QC-080411(RES)	TIN	3.14 mg/Kg	3.14U mg/Kg
SL-006-SA6-SB-4.0-5.0(RES)	TIN	3.07 mg/Kg	3.07U mg/Kg
SL-006-SA6-SB-9.0-10.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg
SL-014-SA6-SB-4.0-5.0(RES)	TIN	3.03 mg/Kg	3.03U mg/Kg
SL-014-SA6-SB-9.0-10.0(RES)	TIN	3.13 mg/Kg	3.13U mg/Kg
SL-019-SA6-SB-4.0-5.0(RES)	TIN	3.52 mg/Kg	3.52U mg/Kg
SL-019-SA6-SB-9.0-10.0(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-024-SA6-SB-4.0-5.0(RES)	TIN	3.12 mg/Kg	3.12U mg/Kg
SL-024-SA6-SB-9.0-10.0(RES)	TIN	3.09 mg/Kg	3.09U mg/Kg
SL-025-SA6-SB-4.0-5.0(RES)	TIN	3.20 mg/Kg	3.20U mg/Kg
SL-025-SA6-SB-9.0-10.0(RES)	TIN	3.22 mg/Kg	3.22U mg/Kg

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22226CB221232A	8/15/2011 12:32:00 PM	VANADIUM	0.0247 mg/Kg	DUP11-SA6-QC-080411
				SL-006-SA6-SB-4.0-5.0
				SL-006-SA6-SB-9.0-10.0
				SL-014-SA6-SB-4.0-5.0
				SL-014-SA6-SB-9.0-10.0
				SL-019-SA6-SB-4.0-5.0
				SL-019-SA6-SB-9.0-10.0
				SL-024-SA6-SB-4.0-5.0
				SL-024-SA6-SB-9.0-10.0
				SL-025-SA6-SB-4.0-5.0
				SL-025-SA6-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8082**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28289AB241824A	8/24/2011 6:24:00 PM	AROCLOR 1260	0.49 ug/Kg	DUP11-SA6-QC-080411 SL-006-SA6-SB-4.0-5.0 SL-006-SA6-SB-9.0-10.0 SL-014-SA6-SB-4.0-5.0 SL-014-SA6-SB-9.0-10.0 SL-019-SA6-SB-4.0-5.0 SL-019-SA6-SB-9.0-10.0 SL-024-SA6-SB-4.0-5.0 SL-024-SA6-SB-9.0-10.0 SL-025-SA6-SB-4.0-5.0 SL-025-SA6-SB-9.0-10.0

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLD22B260842	8/27/2011 8:42:00 AM	NAPHTHALENE	1.3 ug/Kg	DUP11-SA6-QC-080411 SL-006-SA6-SB-4.0-5.0 SL-006-SA6-SB-9.0-10.0 SL-014-SA6-SB-4.0-5.0 SL-014-SA6-SB-9.0-10.0 SL-019-SA6-SB-4.0-5.0 SL-019-SA6-SB-9.0-10.0 SL-024-SA6-SB-4.0-5.0 SL-024-SA6-SB-9.0-10.0 SL-025-SA6-SB-4.0-5.0 SL-025-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-006-SA6-SB-9.0-10.0(RES)	NAPHTHALENE	1.2 ug/Kg	1.9U ug/Kg
SL-014-SA6-SB-4.0-5.0(RES)	NAPHTHALENE	0.89 ug/Kg	1.9U ug/Kg
SL-019-SA6-SB-4.0-5.0(RES)	NAPHTHALENE	0.77 ug/Kg	1.8U ug/Kg
SL-024-SA6-SB-4.0-5.0(RES)	NAPHTHALENE	0.74 ug/Kg	1.8U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-019-SA6-SB-4.0-5.0 MS **SL-019-SA6-SB-4.0-5.0 MSD** (SL-019-SA6-SB-4.0-5.0)	AROCLOR 1260	-3741	-3728	39.00-149.00	-	AROCLOR 1260	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-019-SA6-SB-4.0-5.0 MS (SL-006-SA6-SB-4.0-5.0 SL -006-SA6-SB-9.0-10.0 SL -014-SA6-SB-4.0-5.0 SL -014-SA6-SB-9.0-10.0 SL -019-SA6-SB-4.0-5.0 SL -019-SA6-SB-9.0-10.0 SL -024-SA6-SB-4.0-5.0 SL -024-SA6-SB-9.0-10.0 SL -025-SA6-SB-4.0-5.0 SL -025-SA6-SB-9.0-10.0)	FLUORIDE	67	-	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-019-SA6-SB-4.0-5.0 MS	BERYLLIUM	130	144	75.00-125.00	-	BERYLLIUM	
SL-019-SA6-SB-4.0-5.0 MSD	CADMIUM	160	155	75.00-125.00	-	CADMIUM	
(DUP11-SA6-QC-080411	CHROMIUM	164	205	75.00-125.00	-	CHROMIUM	
SL -006-SA6-SB-4.0-5.0	COBALT	148	170	75.00-125.00	-	COBALT	
SL -006-SA6-SB-9.0-10.0	NICKEL	197	248	75.00-125.00	-	NICKEL	
SL -014-SA6-SB-4.0-5.0	SILVER	140	141	75.00-125.00	-	SILVER	J(all detects)
SL -014-SA6-SB-9.0-10.0	THALLIUM	135	147	75.00-125.00	-	THALLIUM	
SL -019-SA6-SB-4.0-5.0	VANADIUM	174	290	75.00-125.00	-	VANADIUM	
SL -019-SA6-SB-9.0-10.0	ZINC	132	135	75.00-125.00	-	ZINC	
SL -024-SA6-SB-4.0-5.0							Zn, No Qual, >4x
SL -024-SA6-SB-9.0-10.0							
SL -025-SA6-SB-4.0-5.0							
SL -025-SA6-SB-9.0-10.0)							
SL-019-SA6-SB-4.0-5.0 MS	ANTIMONY	40	35	75.00-125.00	-	ANTIMONY	
SL-019-SA6-SB-4.0-5.0 MSD	ARSENIC	143	267	75.00-125.00	28 (20.00)	ARSENIC	
(DUP11-SA6-QC-080411	LEAD	294	636	75.00-125.00	47 (20.00)	LEAD	
SL -006-SA6-SB-4.0-5.0							
SL -006-SA6-SB-9.0-10.0							
SL -014-SA6-SB-4.0-5.0							
SL -014-SA6-SB-9.0-10.0							J(all detects) UJ(all non-detects)
SL -019-SA6-SB-4.0-5.0							
SL -019-SA6-SB-9.0-10.0							
SL -024-SA6-SB-4.0-5.0							
SL -024-SA6-SB-9.0-10.0							
SL -025-SA6-SB-4.0-5.0							
SL -025-SA6-SB-9.0-10.0)							

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_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-019-SA6-SB-4.0-5.0 MSD (DUP11 -SA6-QC-080411 SL -006-SA6-SB-4.0-5.0 SL -006-SA6-SB-9.0-10.0 SL -014-SA6-SB-4.0-5.0 SL -014-SA6-SB-9.0-10.0 SL -019-SA6-SB-4.0-5.0 SL -019-SA6-SB-9.0-10.0 SL -024-SA6-SB-4.0-5.0 SL -024-SA6-SB-9.0-10.0 SL -025-SA6-SB-4.0-5.0 SL -025-SA6-SB-9.0-10.0)	SELENIUM	-	129	75.00-125.00	-	SELENIUM	J(all detects)
SL-019-SA6-SB-4.0-5.0 MS **SL-019-SA6-SB-4.0-5.0 MSD** (DUP11 -SA6-QC-080411 SL -006-SA6-SB-4.0-5.0 SL -006-SA6-SB-9.0-10.0 SL -014-SA6-SB-4.0-5.0 SL -014-SA6-SB-9.0-10.0 SL -019-SA6-SB-4.0-5.0 SL -019-SA6-SB-9.0-10.0 SL -024-SA6-SB-4.0-5.0 SL -024-SA6-SB-9.0-10.0 SL -025-SA6-SB-4.0-5.0 SL -025-SA6-SB-9.0-10.0)	MOLYBDENUM	135	144	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-019-SA6-SB-4.0-5.0 MS **SL-019-SA6-SB-4.0-5.0 MSD** (DUP11 -SA6-QC-080411 SL -006-SA6-SB-4.0-5.0 SL -006-SA6-SB-9.0-10.0 SL -014-SA6-SB-4.0-5.0 SL -014-SA6-SB-9.0-10.0 SL -019-SA6-SB-4.0-5.0 SL -019-SA6-SB-9.0-10.0 SL -024-SA6-SB-4.0-5.0 SL -024-SA6-SB-9.0-10.0 SL -025-SA6-SB-4.0-5.0 SL -025-SA6-SB-9.0-10.0)	BARIUM	187	160	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-019-SA6-SB-4.0-5.0 MS **SL-019-SA6-SB-4.0-5.0 MSD** (DUP11 -SA6-QC-080411 SL -006-SA6-SB-4.0-5.0 SL -006-SA6-SB-9.0-10.0 SL -014-SA6-SB-4.0-5.0 SL -014-SA6-SB-9.0-10.0 SL -019-SA6-SB-4.0-5.0 SL -019-SA6-SB-9.0-10.0 SL -024-SA6-SB-4.0-5.0 SL -024-SA6-SB-9.0-10.0 SL -025-SA6-SB-4.0-5.0 SL -025-SA6-SB-9.0-10.0)	ALUMINUM TITANIUM	959 196	980 127	75.00-125.00 75.00-125.00	- -	ALUMINUM TITANIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_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-019-SA6-SB-4.0-5.0 MS **SL-019-SA6-SB-4.0-5.0 MSD** (DUP11 -SA6-QC-080411 SL -006-SA6-SB-4.0-5.0 SL -006-SA6-SB-9.0-10.0 SL -014-SA6-SB-4.0-5.0 SL -014-SA6-SB-9.0-10.0 SL -019-SA6-SB-4.0-5.0 SL -019-SA6-SB-9.0-10.0 SL -024-SA6-SB-4.0-5.0 SL -024-SA6-SB-9.0-10.0 SL -025-SA6-SB-4.0-5.0 SL -025-SA6-SB-9.0-10.0)	CALCIUM IRON MAGNESIUM	-662 -185 30	346 -841 1	75.00-125.00 75.00-125.00 75.00-125.00	76 (20.00) - -	CALCIUM IRON MAGNESIUM	J(all detects) UJ(all non-detects) Ca, Fe, Mg, No Qual %R, >4x
SL-019-SA6-SB-4.0-5.0 MS **SL-019-SA6-SB-4.0-5.0 MSD** (DUP11 -SA6-QC-080411 SL -006-SA6-SB-4.0-5.0 SL -006-SA6-SB-9.0-10.0 SL -014-SA6-SB-4.0-5.0 SL -014-SA6-SB-9.0-10.0 SL -019-SA6-SB-4.0-5.0 SL -019-SA6-SB-9.0-10.0 SL -024-SA6-SB-4.0-5.0 SL -024-SA6-SB-9.0-10.0 SL -025-SA6-SB-4.0-5.0 SL -025-SA6-SB-9.0-10.0)	MANGANESE PHOSPHORUS	72 61	- 51	75.00-125.00 75.00-125.00	- -	MANGANESE PHOSPHORUS	J(all detects) UJ(all non-detects) Mn, 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-019-SA6-SB-4.0-5.0 MS (SL-019-SA6-SB-4.0-5.0)	BENZIDINE	29	-	35.00-141.00	-	BENZIDINE	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-019-SA6-SB-4.0-5.0 MSD (SL-019-SA6-SB-4.0-5.0)	Butylbenzylphthalate	-	-	57.00-173.00	34 (30.00)	Butylbenzylphthalate	J(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-019-SA6-SB-4.0-5.0 DUP (SL-006-SA6-SB-4.0-5.0 SL-006-SA6-SB-9.0-10.0 SL-014-SA6-SB-4.0-5.0 SL-014-SA6-SB-9.0-10.0 SL-019-SA6-SB-4.0-5.0 SL-019-SA6-SB-9.0-10.0 SL-024-SA6-SB-4.0-5.0 SL-024-SA6-SB-9.0-10.0 SL-025-SA6-SB-4.0-5.0 SL-025-SA6-SB-9.0-10.0)	FLUORIDE	26	20.00	No Qual, OK by Difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-019-SA6-SB-4.0-5.0 DUP (DUP11-SA6-QC-080411 SL-006-SA6-SB-4.0-5.0 SL-006-SA6-SB-9.0-10.0 SL-014-SA6-SB-4.0-5.0 SL-014-SA6-SB-9.0-10.0 SL-019-SA6-SB-4.0-5.0 SL-019-SA6-SB-9.0-10.0 SL-024-SA6-SB-4.0-5.0 SL-024-SA6-SB-9.0-10.0 SL-025-SA6-SB-4.0-5.0 SL-025-SA6-SB-9.0-10.0)	CALCIUM Zirconium	34 29	20.00 20.00	J(all detects) UJ(all non-detects) Zr, No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-019-SA6-SB-4.0-5.0 DUP (DUP11-SA6-QC-080411 SL-006-SA6-SB-4.0-5.0 SL-006-SA6-SB-9.0-10.0 SL-014-SA6-SB-4.0-5.0 SL-014-SA6-SB-9.0-10.0 SL-019-SA6-SB-4.0-5.0 SL-019-SA6-SB-9.0-10.0 SL-024-SA6-SB-4.0-5.0 SL-024-SA6-SB-9.0-10.0 SL-025-SA6-SB-4.0-5.0 SL-025-SA6-SB-9.0-10.0)	ANTIMONY BARIUM BERYLLIUM CADMIUM COBALT SELENIUM THALLIUM ZINC	200 31 22 37 22 52 34 32	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects) Sb, Cd, Se, Tl, No Qual, OK by Difference

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

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-019-SA6-SB-4.0-5.0 DUP (DUP11 -SA6-QC-080411 SL -006-SA6-SB-4.0-5.0 SL -006-SA6-SB-9.0-10.0 SL -014-SA6-SB-4.0-5.0 SL -014-SA6-SB-9.0-10.0 SL -019-SA6-SB-4.0-5.0 SL -019-SA6-SB-9.0-10.0 SL -024-SA6-SB-4.0-5.0 SL -024-SA6-SB-9.0-10.0 SL -025-SA6-SB-4.0-5.0 SL -025-SA6-SB-9.0-10.0)	HEXAVALENT CHROMIUM	200	20.00	No Qual, OK by Difference

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-019-SA6-SB-4.0-5.0 DUP (DUP11 -SA6-QC-080411 SL -006-SA6-SB-4.0-5.0 SL -006-SA6-SB-9.0-10.0 SL -014-SA6-SB-4.0-5.0 SL -014-SA6-SB-9.0-10.0 SL -019-SA6-SB-4.0-5.0 SL -019-SA6-SB-9.0-10.0 SL -024-SA6-SB-4.0-5.0 SL -024-SA6-SB-9.0-10.0 SL -025-SA6-SB-4.0-5.0 SL -025-SA6-SB-9.0-10.0)	MERCURY	36	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_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
P22226CQ221235A (DUP11 -SA6-QC-080411 SL -006-SA6-SB-4.0-5.0 SL -006-SA6-SB-9.0-10.0 SL -014-SA6-SB-4.0-5.0 SL -014-SA6-SB-9.0-10.0 SL -019-SA6-SB-4.0-5.0 SL -019-SA6-SB-9.0-10.0 SL -024-SA6-SB-4.0-5.0 SL -024-SA6-SB-9.0-10.0 SL -025-SA6-SB-4.0-5.0 SL -025-SA6-SB-9.0-10.0)	ANTIMONY	54	-	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
P22208CQ221858 (DUP11 -SA6-QC-080411 SL -006-SA6-SB-4.0-5.0 SL -006-SA6-SB-9.0-10.0 SL -014-SA6-SB-4.0-5.0 SL -014-SA6-SB-9.0-10.0 SL -019-SA6-SB-4.0-5.0 SL -019-SA6-SB-9.0-10.0 SL -024-SA6-SB-4.0-5.0 SL -024-SA6-SB-9.0-10.0 SL -025-SA6-SB-4.0-5.0 SL -025-SA6-SB-9.0-10.0)	ALUMINUM TITANIUM	121 142	- -	80.00-120.00 80.00-120.00	- -	ALUMINUM 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
P7LBLCSQ260043 (DUP11 -SA6-QC-080411 SL -006-SA6-SB-4.0-5.0 SL -006-SA6-SB-9.0-10.0 SL -014-SA6-SB-4.0-5.0 SL -014-SA6-SB-9.0-10.0 SL -019-SA6-SB-4.0-5.0 SL -019-SA6-SB-9.0-10.0 SL -024-SA6-SB-4.0-5.0 SL -024-SA6-SB-9.0-10.0 SL -025-SA6-SB-4.0-5.0 SL -025-SA6-SB-9.0-10.0)	BENZOIC ACID	60	-	62.00-113.00	-	BENZOIC ACID	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA6-SB-4.0-5.0	DUP11-SA6-QC-080411			
MOISTURE	8.8	8.4	5		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA6-SB-4.0-5.0	DUP11-SA6-QC-080411			
FLUORIDE	5.1	5.8	13	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA6-SB-4.0-5.0	DUP11-SA6-QC-080411			
ALUMINUM	19700	19200	3	50.00	No Qualifiers Applied
BORON	6.62	5.00	28	50.00	
CALCIUM	6430	10600	49	50.00	
IRON	20800	19000	9	50.00	
LITHIUM	24.1	22.0	9	50.00	
MAGNESIUM	4180	3950	6	50.00	
MANGANESE	222	211	5	50.00	
PHOSPHORUS	247	256	4	50.00	
POTASSIUM	2190	2000	9	50.00	
SODIUM	179	193	8	50.00	
STRONTIUM	28.0	32.9	16	50.00	
TIN	3.52	3.14	11	50.00	
TITANIUM	1010	1000	1	50.00	
Zirconium	3.20	3.93	20	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA6-SB-4.0-5.0	DUP11-SA6-QC-080411			
ANTIMONY	0.0895	0.0817	9	50.00	No Qualifiers Applied
ARSENIC	4.87	5.27	8	50.00	
BARIUM	114	101	12	50.00	
BERYLLIUM	0.863	0.858	1	50.00	
CADMIUM	0.155	0.172	10	50.00	
CHROMIUM	18.7	19.9	6	50.00	
COBALT	6.27	6.84	9	50.00	
COPPER	7.39	7.93	7	50.00	
LEAD	8.23	8.38	2	50.00	
MOLYBDENUM	0.836	0.870	4	50.00	
NICKEL	11.8	12.9	9	50.00	
SELENIUM	0.140	0.139	1	50.00	
SILVER	0.0614	0.0590	4	50.00	
THALLIUM	0.358	0.309	15	50.00	
VANADIUM	39.7	40.5	2	50.00	
ZINC	83.5	76.7	8	50.00	

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA6-SB-4.0-5.0	DUP11-SA6-QC-080411			
MERCURY	0.0311	0.192	144	50.00	J(all detects)

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA6-SB-4.0-5.0	DUP11-SA6-QC-080411			
AROCLOR 1254	93 U	13	200	50.00	J(all detects)
AROCLOR 1260	700	15	192	50.00	UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA6-SB-4.0-5.0	DUP11-SA6-QC-080411			
ANTHRACENE	1.8	1.8 U	200	50.00	
BENZO(A)ANTHRACENE	2.5	1.8 U	200	50.00	
BENZO(A)PYRENE	3.5	1.8 U	200	50.00	
BENZO(B)FLUORANTHENE	9.4	0.85	167	50.00	
BENZO(G,H,I)PERYLENE	3.9	1.8 U	200	50.00	
BENZO(K)FLUORANTHENE	1.8	1.8 U	200	50.00	
BIS(2-ETHYLHEXYL)PHTHALATE	10	20 U	200	50.00	
CHRYSENE	6.0	0.50	169	50.00	J(all detects)
DIBENZO(A,H)ANTHRACENE	2.1	1.8 U	200	50.00	UJ(all non-detects)
FLUORANTHENE	2.1	1.8 U	200	50.00	
FLUORENE	0.80	1.8 U	200	50.00	
INDENO(1,2,3-CD)PYRENE	1.9	1.8 U	200	50.00	
NAPHTHALENE	0.77	1.8 U	200	50.00	
PHENANTHRENE	1.7	1.8 U	200	50.00	
PYRENE	2.2	1.8 U	200	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA6-SB-4.0-5.0	DUP11-SA6-QC-080411			
PH	8.29	8.23	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP11-SA6-QC-080411	BORON	J	5.00	5.40	PQL	mg/Kg	J (all detects)
	TIN	J	3.14	10.8	PQL	mg/Kg	
	Zirconium	J	3.93	5.40	PQL	mg/Kg	
SL-006-SA6-SB-4.0-5.0	TIN	J	3.07	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.05	5.32	PQL	mg/Kg	
SL-006-SA6-SB-9.0-10.0	SODIUM	J	80.2	108	PQL	mg/Kg	J (all detects)
	TIN	J	2.69	10.8	PQL	mg/Kg	
	Zirconium	J	3.42	5.42	PQL	mg/Kg	
SL-014-SA6-SB-4.0-5.0	TIN	J	3.03	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.67	5.45	PQL	mg/Kg	
SL-014-SA6-SB-9.0-10.0	BORON	J	4.99	5.47	PQL	mg/Kg	J (all detects)
	TIN	J	3.13	10.9	PQL	mg/Kg	
	Zirconium	J	3.20	5.47	PQL	mg/Kg	
SL-019-SA6-SB-4.0-5.0	TIN	J	3.52	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.20	5.37	PQL	mg/Kg	
SL-019-SA6-SB-9.0-10.0	BORON	J	5.10	5.29	PQL	mg/Kg	J (all detects)
	TIN	J	3.05	10.6	PQL	mg/Kg	
	Zirconium	J	3.06	5.29	PQL	mg/Kg	
SL-024-SA6-SB-4.0-5.0	BORON	J	4.80	5.29	PQL	mg/Kg	J (all detects)
	SODIUM	J	104	106	PQL	mg/Kg	
	TIN	J	3.12	10.6	PQL	mg/Kg	
	Zirconium	J	2.91	5.29	PQL	mg/Kg	
SL-024-SA6-SB-9.0-10.0	SODIUM	J	104	107	PQL	mg/Kg	J (all detects)
	TIN	J	3.09	10.7	PQL	mg/Kg	
	Zirconium	J	3.50	5.33	PQL	mg/Kg	
SL-025-SA6-SB-4.0-5.0	TIN	J	3.20	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.55	5.35	PQL	mg/Kg	
SL-025-SA6-SB-9.0-10.0	BORON	J	5.08	5.51	PQL	mg/Kg	J (all detects)
	SODIUM	J	104	110	PQL	mg/Kg	
	TIN	J	3.22	11.0	PQL	mg/Kg	
	Zirconium	J	3.07	5.51	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP11-SA6-QC-080411	ANTIMONY	J	0.0817	0.214	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.139	0.428	PQL	mg/Kg	
	SILVER	J	0.0590	0.107	PQL	mg/Kg	
SL-006-SA6-SB-4.0-5.0	CADMIUM	J	0.0565	0.109	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.133	0.434	PQL	mg/Kg	
	SILVER	J	0.0572	0.109	PQL	mg/Kg	
SL-006-SA6-SB-9.0-10.0	ANTIMONY	J	0.0924	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.224	0.442	PQL	mg/Kg	
	SILVER	J	0.0522	0.111	PQL	mg/Kg	
SL-014-SA6-SB-4.0-5.0	ANTIMONY	J	0.0952	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.201	0.431	PQL	mg/Kg	
	SILVER	J	0.0300	0.108	PQL	mg/Kg	
SL-014-SA6-SB-9.0-10.0	SELENIUM	J	0.0820	0.425	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0568	0.106	PQL	mg/Kg	

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

Reporting Limit Outliers

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-019-SA6-SB-4.0-5.0	ANTIMONY	J	0.0895	0.219	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.140	0.439	PQL	mg/Kg	
	SILVER	J	0.0614	0.110	PQL	mg/Kg	
SL-019-SA6-SB-9.0-10.0	SELENIUM	J	0.129	0.420	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0601	0.105	PQL	mg/Kg	
SL-024-SA6-SB-4.0-5.0	ANTIMONY	J	0.0976	0.212	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0965	0.106	PQL	mg/Kg	
	SELENIUM	J	0.164	0.423	PQL	mg/Kg	
	SILVER	J	0.0448	0.106	PQL	mg/Kg	
SL-024-SA6-SB-9.0-10.0	CADMIUM	J	0.0753	0.110	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.110	0.439	PQL	mg/Kg	
SL-025-SA6-SB-4.0-5.0	CADMIUM	J	0.0814	0.102	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.156	0.408	PQL	mg/Kg	
	SILVER	J	0.0886	0.102	PQL	mg/Kg	
SL-025-SA6-SB-9.0-10.0	CADMIUM	J	0.0468	0.106	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0954	0.424	PQL	mg/Kg	
	SILVER	J	0.0623	0.106	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.48	1.1	PQL	mg/Kg	J (all detects)
SL-024-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-025-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA6-SB-4.0-5.0	MERCURY	J	0.0110	0.104	PQL	mg/Kg	J (all detects)
SL-014-SA6-SB-9.0-10.0	MERCURY	J	0.0218	0.110	PQL	mg/Kg	J (all detects)
SL-019-SA6-SB-4.0-5.0	MERCURY	J	0.0311	0.109	PQL	mg/Kg	J (all detects)
SL-019-SA6-SB-9.0-10.0	MERCURY	J	0.0136	0.103	PQL	mg/Kg	J (all detects)
SL-024-SA6-SB-4.0-5.0	MERCURY	J	0.0099	0.106	PQL	mg/Kg	J (all detects)
SL-024-SA6-SB-9.0-10.0	MERCURY	J	0.0262	0.106	PQL	mg/Kg	J (all detects)
SL-025-SA6-SB-4.0-5.0	MERCURY	J	0.0090	0.100	PQL	mg/Kg	J (all detects)
SL-025-SA6-SB-9.0-10.0	MERCURY	J	0.0084	0.107	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE217 **Laboratory: LL**

EDD Filename: DE217_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA6-SB-4.0-5.0	AROCLOR 1254	J	1.8	1.9	PQL	ug/Kg	J (all detects)
SL-024-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.47	1.8	PQL	ug/Kg	J (all detects)
SL-024-SA6-SB-9.0-10.0	AROCLOR 1254	J	0.97	1.9	PQL	ug/Kg	J (all detects)
SL-025-SA6-SB-4.0-5.0	AROCLOR 1254	J	1.1	1.8	PQL	ug/Kg	J (all detects)
SL-025-SA6-SB-9.0-10.0	AROCLOR 1254	J	1.0	1.9	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP11-SA6-QC-080411	BENZO(B)FLUORANTHENE	J	0.85	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.50	1.8	PQL	ug/Kg	
SL-006-SA6-SB-9.0-10.0	ANTHRACENE	J	0.77	1.9	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.4	1.9	PQL	ug/Kg	
	CHRYSENE	J	0.66	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	1.2	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	0.91	1.9	PQL	ug/Kg	
SL-014-SA6-SB-4.0-5.0	ACENAPHTHENE	J	1.6	1.9	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	15	20	PQL	ug/Kg	
	NAPHTHALENE	J	0.89	1.9	PQL	ug/Kg	
SL-019-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	20	PQL	ug/Kg	J (all detects)
	FLUORENE	J	0.80	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.77	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.7	1.8	PQL	ug/Kg	
SL-019-SA6-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	0.84	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.1	20	PQL	ug/Kg	
	CHRYSENE	J	0.41	1.8	PQL	ug/Kg	
SL-024-SA6-SB-4.0-5.0	NAPHTHALENE	J	0.74	1.8	PQL	ug/Kg	J (all detects)
SL-025-SA6-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.79	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.8	19	PQL	ug/Kg	
	CHRYSENE	J	1.0	1.8	PQL	ug/Kg	

LDC #: 26533F4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/7/11
SDG #: DE217 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MM
2nd Reviewer:

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates: 8/4/11
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	report
VI.	Matrix Spike Analysis	SW	~~Sb~~, Al, Ba, Ca, Fe, Mg, Mn, Ti, Zn >4X (No spk) % k
VII.	Duplicate Sample Analysis	SW	Sb, Cd, Hg, Se, Tl, V <5X.
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	—	
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-006-SA6-SB-4.0-5.0	11	DUP11-SA6-QC-080411	21	Mn	31	
2	SL-006-SA6-SB-9.0-10.0	12	SL-019-SA6-SB-4.0-5.0MS	22		32	
3	SL-014-SA6-SB-4.0-5.0	13	SL-019-SA6-SB-4.0-5.0MSD	23		33	
4	SL-014-SA6-SB-9.0-10.0	14	SL-019-SA6-SB-4.0-5.0DUP	24		34	
5	SL-019-SA6-SB-4.0-5.0	15		25		35	
6	SL-019-SA6-SB-9.0-10.0	16		26		36	
7	SL-024-SA6-SB-4.0-5.0	17		27		37	
8	SL-024-SA6-SB-9.0-10.0	18		28		38	
9	SL-025-SA6-SB-4.0-5.0	19		29		39	
10	SL-025-SA6-SB-9.0-10.0	20		30		40	

Notes:

LDC #: 26533F4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: 200X
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	2	3	4	5	7	11				
Sb			0.36	0.36	0.092	0.095	0.079	0.090	0.098	0.082				
Be			0.053	0.053										
Tl			0.095	0.095										
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.

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE217
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6366535BKG Matrix Spike Lab Sample ID: 6366536MS Matrix Spike Duplicate Lab Sample ID: 6366537MSD
% Solids for Sample: 91.2
Batch Id(s): P22208C, P22226C, P22826A, P22211C

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		19662.1560		21743.3527		21748.5799		217.1270	212.9109	MG/KG	959		980		0			20	P
Antimony	121	0.0895	B	0.6011		0.5359		1.2900	1.2775	MG/KG	40	N	35	N	11		75 - 125	20	MS
Arsenic	75	4.8684		7.9528		10.5455		2.1500	2.1291	MG/KG	143	N	267	N	28	*	75 - 125	20	MS
Barium	137	114.0132		134.0729		130.9934		10.7499	10.6455	MG/KG	187		160		2			20	MS
Beryllium	9	0.8627		1.9795		2.0904		0.8600	0.8516	MG/KG	130	N	144	N	5		75 - 125	20	MS
Boron		6.6198		211.4035		198.1690		217.1270	212.9109	MG/KG	94		90		6		84 - 115	20	P
Cadmium	111	0.1549		1.8789		1.8089		1.0750	1.0646	MG/KG	160	N	155	N	4		75 - 125	20	MS
Calcium		6431.5230		3554.9787		7903.3086		434.2539	425.8218	MG/KG	-662		346		76	*		20	P
Chromium	52	18.6842		36.3132		40.5595		10.7499	10.6455	MG/KG	164	N	205	N	11		75 - 125	20	MS
Cobalt	59	6.2697		85.6123		96.5551		53.7496	53.2277	MG/KG	148	N	170	N	12		75 - 125	20	MS
Copper	63	7.3873		17.7045		18.9704		10.8563	10.8563	MG/KG	95		107		7		75 - 125	20	MS
Iron		20800.8374		20600.1672		19905.7316		108.5635	106.4555	MG/KG	-185		-841		3			20	P
Lead	208	8.2281		17.7030		28.5514		3.2250	3.1937	MG/KG	294	N	636	N	47	*	75 - 125	20	MS
Lithium		24.0992		132.1044		126.8129		108.5635	106.4555	MG/KG	99		96		4		82 - 114	20	P
Magnesium		4178.6926		4243.6252		4181.6950		217.1270	212.9109	MG/KG	30		1		1			20	P
Manganese		221.8234		260.9204		264.5077		54.2817	53.2277	MG/KG	72		80		1			20	P
Mercury		0.0311	B	0.2319		0.1995		0.1744	0.1797	MG/KG	115		94		15		65 - 135	20	CV
Molybdenum	98	0.8357		15.3552		16.1876		10.7499	10.6455	MG/KG	135	N	144	N	5		75 - 125	20	MS
Nickel	60	11.7939		32.9377		38.2175		10.7499	10.6455	MG/KG	197	N	248	N	15		75 - 125	20	MS
Phosphorus		247.4222		314.0579		302.0109		108.5635	106.4555	MG/KG	61	N	51	N	4		75 - 125	20	P
Potassium		2194.9508		3316.7448		3230.9519		1085.6349	1064.5546	MG/KG	103		97		3		75 - 125	20	P
Selenium	78	0.1400	B	2.7197		2.8828		2.1500	2.1291	MG/KG	120		129	N	6		75 - 125	20	MS
Silver	107	0.0614	B	15.1316		15.0634		10.7499	10.6455	MG/KG	140	N	141	N	0		75 - 125	20	MS
Sodium		179.1054		1193.7044		1162.7299		1085.6349	1064.5546	MG/KG	93		92		3		75 - 125	20	P
Strontium		27.9627		126.5416		125.0341		108.5635	106.4555	MG/KG	91		91		1		75 - 115	20	P
Thallium	203	0.3579		0.9378		0.9839		0.4300	0.4258	MG/KG	135	N	147	N	5		75 - 125	20	MS
Tin		3.5174	B	391.7774		368.6478		434.2539	425.8218	MG/KG	89		86		6		80 - 110	20	P
Titanium		1012.2495		1224.7774		1147.3248		108.5635	106.4555	MG/KG	196		127		7			20	P
Vanadium	51	39.7149		58.3720		70.6226		10.7499	10.6455	MG/KG	174	N	290	N	19		75 - 125	20	MS
Zinc	66	83.4649		97.6522		97.8751		10.7499	10.6455	MG/KG	132		135		0			20	MS
Zirconium		3.2002	B	111.2700		104.4073		108.5635	106.4555	MG/KG	100		95		6		75 - 125	20	P

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:
N = Matrix Spike OOS, * = Duplicate OOS

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE217
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6366535BKG
% Solids for Duplicate: 91.2
Batch ID(s): P22208C, P22226C, P22826A, P22211C
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6366538DUP
% Solids for Sample: 91.2

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			19662.1560		19402.1312		1		P
Antimony	121		0.0895	B	0.0811	U	200		MS
Arsenic	75		4.8684		4.3026		12		MS
Barium	137		114.0132		83.5965		31	*	MS
Beryllium	9		0.8627		0.6904		22	*	MS
Boron		5.4	6.6198		5.8178		13		P
Cadmium	111	0.1	0.1549		0.1062	B	37		MS
Calcium			6431.5230		9104.2337		34	*	P
Chromium	52		18.6842		16.1162		15		MS
Cobalt	59		6.2697		5.0110		22	*	MS
Copper	63		7.3873		7.5148		2		MS
Iron			20800.8374		20247.0948		3		P
Lead	208		8.2281		7.1974		13		MS
Lithium			24.0992		23.1211		4		P
Magnesium			4178.6926		4132.3167		1		P
Manganese			221.8234		215.4275		3		P
Mercury			0.0311	B	0.0216	B	36		CV
Molybdenum	98		0.8357		0.7925		5		MS
Nickel	60		11.7939		9.6535		20		MS
Phosphorus			247.4222		231.1584		7		P
Potassium			2194.9508		2172.7357		1		P
Selenium	78		0.1400	B	0.0820	B	52		MS
Silver	107		0.0614	B	0.0552	B	11		MS
Sodium		107.5	179.1054		183.8273		3		P
Strontium			27.9627		32.1857		14		P
Thallium	203	0.1	0.3579		0.2548		34		MS
Tin			3.5174	B	3.1702	B	10		P
Titanium			1012.2495		1034.8120		2		P
Vanadium	51		39.7149		33.1579		18		MS
Zinc	66		83.4649		60.2412		32	*	MS
Zirconium			3.2002	B	4.2806	B	29		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.

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

SAMPLE DELIVERY GROUP

DE218

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
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3050B	6010B	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3050B	6020	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3060A	7199	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3550B	8082	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3550B	8270C	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3550B	8270C SIM	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	METHOD	300.0	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	METHOD	314.0	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	METHOD	6850	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	METHOD	7471A	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0DUP	P367755D270449A	DUP	METHOD	300.0	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0DUP	P367755D271150A	DUP	METHOD	314.0	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0MS	P367755R270530A	MS	METHOD	300.0	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0MS	P367755R271213A	MS	METHOD	314.0	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3050B	6010B	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3050B	6020	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3060A	7199	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3546	1625C	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3550B	8015B	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3550B	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3550B	8082	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3550B	8270C	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3550B	8270C SIM	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	5035	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	8330	8330A	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	300.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	314.0	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	7471A	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	8015B	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	8315A	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	9012B	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0MS	P367762R240013A	MS	8330	8330A	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0MS	P367762R242118A	MS	METHOD	8315A	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0MS	P367762R261721	MS	3546	1625C	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3050B	6010B	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3050B	6020	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3060A	7199	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3546	1625C	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3550B	8015B	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3550B	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3550B	8082	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3550B	8270C	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3550B	8270C SIM	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	5035	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	8330	8330A	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	300.0	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	314.0	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	7471A	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	8015B	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	8315A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	9012B	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3050B	6010B	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3050B	6020	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3060A	7199	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3550B	8082	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3550B	8270C	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3550B	8270C SIM	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	METHOD	300.0	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	METHOD	314.0	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	METHOD	7471A	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3050B	6010B	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3050B	6020	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3060A	7199	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3550B	8082	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3550B	8270C	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3550B	8270C SIM	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	METHOD	300.0	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	METHOD	314.0	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	METHOD	7471A	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3050B	6010B	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3050B	6020	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3060A	7199	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3550B	8082	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3550B	8270C	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3550B	8270C SIM	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	METHOD	300.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	METHOD	314.0	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	METHOD	7471A	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3050B	6010B	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3050B	6020	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3060A	7199	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3550B	8082	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3550B	8270C	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3550B	8270C SIM	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	METHOD	300.0	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	METHOD	314.0	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	METHOD	7471A	III
05-Aug-2011	TB-080511	6367764	TB	5030B	8015M	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3050B	6010B	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3050B	6020	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3060A	7199	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3550B	8015B	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3550B	8015M	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3550B	8082	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3550B	8270C	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3550B	8270C SIM	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	5035	8015M	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	METHOD	300.0	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	METHOD	314.0	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	METHOD	7471A	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	METHOD	8015B	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	METHOD	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Aug-2011	SL-114-SA6-SB-4.0-5.0MSD	P367758M320134A	MSD	METHOD	8015B	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0MSD	P367758M321917A	MSD	METHOD	8015M	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0MS	P367758R320119A	MS	METHOD	8015B	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0MS	P367758R321904A	MS	METHOD	8015M	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3050B	6010B	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3050B	6020	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3060A	7199	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3550B	8015B	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3550B	8015M	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3550B	8082	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3550B	8270C	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3550B	8270C SIM	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	5035	8015M	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	METHOD	300.0	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	METHOD	314.0	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	METHOD	7471A	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	METHOD	8015B	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	METHOD	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: **SL-010-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:05:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.91	U	0.91	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: **SL-022-SA6-SB-0.0-1.0** ***Collected:*** **8/5/2011 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	0.85	U	0.85	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: **SL-023-SA6-SB-0.0-1.0** ***Collected:*** **8/5/2011 10:00:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.84	U	0.84	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: **SL-060-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 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	4.4		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: **SL-060-SA5DN-SB-7.0-8.0** ***Collected:*** **8/5/2011 1:05:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.3		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: **SL-114-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 3:05:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.9		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: **SL-114-SA6-SB-9.0-10.0** ***Collected:*** **8/5/2011 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	1.3		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: **SL-198-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:49:00 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		0.93	MDL	1.2	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: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SL-198-SA5DN-SB-9.0-10.0 *Collected:* 8/5/2011 9:13:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	11.3		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-010-SA6-SB-4.0-5.0 *Collected:* 8/5/2011 8:05:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.54	J	0.404	MDL	5.61	PQL	mg/Kg	J	Z
CALCIUM	1430		2.81	MDL	22.4	PQL	mg/Kg	J	E, E
PHOSPHORUS	147		0.393	MDL	11.2	PQL	mg/Kg	J	Q
SODIUM	109	J	6.68	MDL	112	PQL	mg/Kg	J	Z
TIN	3.37	J	0.359	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	2.98	J	0.516	MDL	5.61	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 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	4.97	J	0.364	MDL	5.05	PQL	mg/Kg	J	Z
CALCIUM	2280		2.53	MDL	20.2	PQL	mg/Kg	J	E, E
PHOSPHORUS	480		0.354	MDL	10.1	PQL	mg/Kg	J	Q
TIN	3.37	J	0.323	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	2.13	J	0.465	MDL	5.05	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.38	J	0.369	MDL	5.12	PQL	mg/Kg	J	Z
CALCIUM	3270		2.56	MDL	20.5	PQL	mg/Kg	J	E, E
PHOSPHORUS	358		0.359	MDL	10.2	PQL	mg/Kg	J	Q
SODIUM	88.2	J	6.10	MDL	102	PQL	mg/Kg	J	Z
TIN	2.95	J	0.328	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.30	J	0.471	MDL	5.12	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: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-060-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 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
CALCIUM	23900		2.53	MDL	20.2	PQL	mg/Kg	J	E, E
PHOSPHORUS	330		0.354	MDL	10.1	PQL	mg/Kg	J	Q
SODIUM	94.5	J	6.02	MDL	101	PQL	mg/Kg	J	Z
TIN	2.78	J	0.324	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: **SL-060-SA5DN-SB-7.0-8.0** ***Collected:*** **8/5/2011 1:05:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	92900		14.2	MDL	113	PQL	mg/Kg	J	E, E

Sample ID: **SL-060-SA5DN-SB-7.0-8.0** ***Collected:*** **8/5/2011 1:05:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	513		0.397	MDL	11.3	PQL	mg/Kg	J	Q
TIN	2.90	J	0.363	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	5.64	J	0.522	MDL	5.67	PQL	mg/Kg	J	Z

Sample ID: **SL-114-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 3:05:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.32	J	0.384	MDL	5.33	PQL	mg/Kg	J	Z
CALCIUM	2710		2.67	MDL	21.3	PQL	mg/Kg	J	E, E
PHOSPHORUS	289		0.373	MDL	10.7	PQL	mg/Kg	J	Q
TIN	2.96	J	0.341	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.83	J	0.490	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: **SL-114-SA6-SB-9.0-10.0** ***Collected:*** **8/5/2011 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
CALCIUM	1410		2.73	MDL	21.8	PQL	mg/Kg	J	E, E
PHOSPHORUS	221		0.382	MDL	10.9	PQL	mg/Kg	J	Q
TIN	3.28	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.59	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

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-198-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:49:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	6330		2.85	MDL	22.8	PQL	mg/Kg	J	E, E
PHOSPHORUS	346		0.399	MDL	11.4	PQL	mg/Kg	J	Q
TIN	3.38	J	0.365	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: **SL-198-SA5DN-SB-9.0-10.0** ***Collected:*** **8/5/2011 9:13:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	54600		2.70	MDL	21.6	PQL	mg/Kg	J	E, E
PHOSPHORUS	454		0.378	MDL	10.8	PQL	mg/Kg	J	Q
TIN	3.04	J	0.346	MDL	10.8	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-010-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:05:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0695	J	0.0651	MDL	0.449	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-010-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:05:00 AM** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.873		0.0561	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: **SL-010-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:05:00 AM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	103		0.119	MDL	0.449	PQL	mg/Kg	J	E

Sample ID: **SL-010-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:05:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0831	U	0.0831	MDL	0.224	PQL	mg/Kg	UJ	Q
ARSENIC	4.77		0.0898	MDL	0.449	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.933		0.0180	MDL	0.112	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: DE218 **Laboratory:** LL

EDD Filename: DE218_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-010-SA6-SB-4.0-5.0 ***Collected:*** 8/5/2011 8:05:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0497	J	0.0494	MDL	0.112	PQL	mg/Kg	J	Z, Q
CHROMIUM	18.0		0.135	MDL	0.449	PQL	mg/Kg	J	Q
COBALT	6.67		0.0224	MDL	0.112	PQL	mg/Kg	J	Q, E
LEAD	6.13		0.0114	MDL	0.224	PQL	mg/Kg	J	Q, E
NICKEL	11.9		0.112	MDL	0.449	PQL	mg/Kg	J	Q
SILVER	0.0255	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.216		0.0337	MDL	0.112	PQL	mg/Kg	J	Q
VANADIUM	36.3		0.0247	MDL	0.112	PQL	mg/Kg	J	Q
ZINC	63.1		0.629	MDL	3.37	PQL	mg/Kg	J	E

Sample ID: SL-022-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 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	0.136	J	0.0609	MDL	0.420	PQL	mg/Kg	J	Z, Q

Sample ID: SL-022-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 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	0.620		0.0525	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-022-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 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	77.0		0.111	MDL	0.420	PQL	mg/Kg	J	E

Sample ID: SL-022-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 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	0.0777	U	0.0777	MDL	0.210	PQL	mg/Kg	UJ	Q
ARSENIC	4.69		0.0840	MDL	0.420	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.399		0.0168	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	0.0504	J	0.0462	MDL	0.105	PQL	mg/Kg	J	Z, Q
CHROMIUM	7.17		0.126	MDL	0.420	PQL	mg/Kg	J	Q
COBALT	4.59		0.0210	MDL	0.105	PQL	mg/Kg	J	Q, E
LEAD	5.36		0.0107	MDL	0.210	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: DE218 **Laboratory:** LL

EDD Filename: DE218_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-022-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 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
NICKEL	5.75		0.105	MDL	0.420	PQL	mg/Kg	J	Q
THALLIUM	0.371		0.0315	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	25.8		0.0231	MDL	0.105	PQL	mg/Kg	J	Q
ZINC	65.7		0.588	MDL	3.15	PQL	mg/Kg	J	E

Sample ID: SL-023-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 10:00:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.443		0.0517	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-023-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 10:00:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	103		0.110	MDL	0.414	PQL	mg/Kg	J	E

Sample ID: SL-023-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 10:00:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0766	U	0.0766	MDL	0.207	PQL	mg/Kg	UJ	Q
ARSENIC	3.15		0.0828	MDL	0.414	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.422		0.0166	MDL	0.103	PQL	mg/Kg	J	Q, E
CADMIUM	0.0848	J	0.0455	MDL	0.103	PQL	mg/Kg	J	Z, Q
CHROMIUM	11.8		0.124	MDL	0.414	PQL	mg/Kg	J	Q
COBALT	5.61		0.0207	MDL	0.103	PQL	mg/Kg	J	Q, E
LEAD	4.64		0.0106	MDL	0.207	PQL	mg/Kg	J	Q, E
NICKEL	8.34		0.103	MDL	0.414	PQL	mg/Kg	J	Q
THALLIUM	0.282		0.0310	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	30.1		0.0228	MDL	0.103	PQL	mg/Kg	J	Q
ZINC	73.5		0.579	MDL	3.10	PQL	mg/Kg	J	E

Sample ID: SL-060-SA5DN-SB-4.0-5.0 ***Collected:*** 8/5/2011 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	0.0789	J	0.0599	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

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-060-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 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	0.231		0.0516	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-060-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 11:32:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	122		0.109	MDL	0.413	PQL	mg/Kg	J	E

Sample ID: SL-060-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 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	0.0923	J	0.0764	MDL	0.206	PQL	mg/Kg	UJ	B, Q
ARSENIC	5.96		0.0826	MDL	0.413	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.859		0.0165	MDL	0.103	PQL	mg/Kg	J	Q, E
CADMIUM	0.322		0.0454	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	32.2		0.124	MDL	0.413	PQL	mg/Kg	J	Q
COBALT	8.81		0.0206	MDL	0.103	PQL	mg/Kg	J	Q, E
LEAD	9.47		0.0105	MDL	0.206	PQL	mg/Kg	J	Q, E
NICKEL	21.2		0.103	MDL	0.413	PQL	mg/Kg	J	Q
SILVER	0.0514	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z, Q
THALLIUM	0.350		0.0310	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	58.2		0.0227	MDL	0.103	PQL	mg/Kg	J	Q
ZINC	67.4		0.578	MDL	3.10	PQL	mg/Kg	J	E

Sample ID: SL-060-SA5DN-SB-7.0-8.0 *Collected:* 8/5/2011 1:05:00 PM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0825	J	0.0658	MDL	0.454	PQL	mg/Kg	J	Z, Q

Sample ID: SL-060-SA5DN-SB-7.0-8.0 *Collected:* 8/5/2011 1:05:00 PM *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.233		0.0567	MDL	0.113	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 ***Matrix:*** SO

Sample ID: SL-060-SA5DN-SB-7.0-8.0 ***Collected:*** 8/5/2011 1:05:00 PM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	114		0.120	MDL	0.454	PQL	mg/Kg	J	E

Sample ID: SL-060-SA5DN-SB-7.0-8.0 ***Collected:*** 8/5/2011 1:05:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.124	J	0.0840	MDL	0.227	PQL	mg/Kg	UJ	B, Q
ARSENIC	7.89		0.0908	MDL	0.454	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.830		0.0182	MDL	0.113	PQL	mg/Kg	J	Q, E
CADMIUM	0.381		0.0499	MDL	0.113	PQL	mg/Kg	J	Q
CHROMIUM	30.3		0.136	MDL	0.454	PQL	mg/Kg	J	Q
COBALT	10.8		0.0227	MDL	0.113	PQL	mg/Kg	J	Q, E
LEAD	10.2		0.0116	MDL	0.227	PQL	mg/Kg	J	Q, E
NICKEL	20.9		0.113	MDL	0.454	PQL	mg/Kg	J	Q
SILVER	0.0490	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.296		0.0340	MDL	0.113	PQL	mg/Kg	J	Q
VANADIUM	62.3		0.0250	MDL	0.113	PQL	mg/Kg	J	Q
ZINC	64.5		0.635	MDL	3.40	PQL	mg/Kg	J	E

Sample ID: SL-114-SA6-SB-4.0-5.0 ***Collected:*** 8/5/2011 3:05:00 PM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0733	J	0.0589	MDL	0.406	PQL	mg/Kg	J	Z, Q

Sample ID: SL-114-SA6-SB-4.0-5.0 ***Collected:*** 8/5/2011 3:05:00 PM ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.550		0.0508	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-114-SA6-SB-4.0-5.0 ***Collected:*** 8/5/2011 3:05:00 PM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	93.0		0.108	MDL	0.406	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: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-114-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 3:05:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0751	U	0.0751	MDL	0.203	PQL	mg/Kg	UJ	Q
ARSENIC	4.35		0.0812	MDL	0.406	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.668		0.0162	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	0.0779	J	0.0447	MDL	0.102	PQL	mg/Kg	J	Z, Q
CHROMIUM	17.0		0.122	MDL	0.406	PQL	mg/Kg	J	Q
COBALT	6.21		0.0203	MDL	0.102	PQL	mg/Kg	J	Q, E
LEAD	5.11		0.0104	MDL	0.203	PQL	mg/Kg	J	Q, E
NICKEL	11.3		0.102	MDL	0.406	PQL	mg/Kg	J	Q
SILVER	0.0259	J	0.0144	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.295		0.0305	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	36.8		0.0223	MDL	0.102	PQL	mg/Kg	J	Q
ZINC	60.7		0.569	MDL	3.05	PQL	mg/Kg	J	E

Sample ID: **SL-114-SA6-SB-9.0-10.0** ***Collected:*** **8/5/2011 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	0.223	J	0.0645	MDL	0.445	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-114-SA6-SB-9.0-10.0** ***Collected:*** **8/5/2011 3:15:00 PM** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	2.05		0.0556	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: **SL-114-SA6-SB-9.0-10.0** ***Collected:*** **8/5/2011 3:15:00 PM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	179		0.118	MDL	0.445	PQL	mg/Kg	J	E

Sample ID: **SL-114-SA6-SB-9.0-10.0** ***Collected:*** **8/5/2011 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	0.0966	J	0.0823	MDL	0.222	PQL	mg/Kg	UJ	B, Q
ARSENIC	9.46		0.0890	MDL	0.445	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.33		0.0178	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.0790	J	0.0489	MDL	0.111	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-114-SA6-SB-9.0-10.0** ***Collected:*** **8/5/2011 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
CHROMIUM	30.4		0.133	MDL	0.445	PQL	mg/Kg	J	Q
COBALT	9.62		0.0222	MDL	0.111	PQL	mg/Kg	J	Q, E
LEAD	11.7		0.0113	MDL	0.222	PQL	mg/Kg	J	Q, E
NICKEL	25.7		0.111	MDL	0.445	PQL	mg/Kg	J	Q
SILVER	0.122		0.0158	MDL	0.111	PQL	mg/Kg	J	Q
THALLIUM	0.456		0.0334	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	60.6		0.0245	MDL	0.111	PQL	mg/Kg	J	Q
ZINC	83.1		0.623	MDL	3.34	PQL	mg/Kg	J	E

Sample ID: **SL-198-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:49:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.251	J	0.0642	MDL	0.443	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-198-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:49:00 AM** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.551		0.0554	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: **SL-198-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:49:00 AM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	197		0.117	MDL	0.443	PQL	mg/Kg	J	E

Sample ID: **SL-198-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:49:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.160	J	0.0819	MDL	0.221	PQL	mg/Kg	UJ	B, Q
ARSENIC	7.72		0.0886	MDL	0.443	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.17		0.0177	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.474		0.0487	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	42.6		0.133	MDL	0.443	PQL	mg/Kg	J	Q
COBALT	17.1		0.0221	MDL	0.111	PQL	mg/Kg	J	Q, E
LEAD	15.2		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, E
NICKEL	33.6		0.111	MDL	0.443	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: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-198-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:49:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.115		0.0157	MDL	0.111	PQL	mg/Kg	J	Q
THALLIUM	0.517		0.0332	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	76.6		0.0244	MDL	0.111	PQL	mg/Kg	J	Q
ZINC	107		0.620	MDL	3.32	PQL	mg/Kg	J	E

Sample ID: **SL-198-SA5DN-SB-9.0-10.0** ***Collected:*** **8/5/2011 9:13:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0819	J	0.0639	MDL	0.441	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-198-SA5DN-SB-9.0-10.0** ***Collected:*** **8/5/2011 9:13:00 AM** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.221		0.0551	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: **SL-198-SA5DN-SB-9.0-10.0** ***Collected:*** **8/5/2011 9:13:00 AM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.117	MDL	0.441	PQL	mg/Kg	J	E

Sample ID: **SL-198-SA5DN-SB-9.0-10.0** ***Collected:*** **8/5/2011 9:13:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0815	U	0.0815	MDL	0.220	PQL	mg/Kg	UJ	Q
ARSENIC	5.36		0.0881	MDL	0.441	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.683		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, E
CADMIUM	0.292		0.0485	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	27.2		0.132	MDL	0.441	PQL	mg/Kg	J	Q
COBALT	9.87		0.0220	MDL	0.110	PQL	mg/Kg	J	Q, E
LEAD	8.65		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, E
NICKEL	19.4		0.110	MDL	0.441	PQL	mg/Kg	J	Q
SILVER	0.0482	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.318		0.0330	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	51.2		0.0242	MDL	0.110	PQL	mg/Kg	J	Q
ZINC	59.6		0.617	MDL	3.30	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: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-114-SA6-SB-9.0-10.0 *Collected:* 8/5/2011 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	0.80	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-198-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 8:49:00 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	0.52	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-022-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 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	0.0189	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0574	J	0.0070	MDL	0.0992	PQL	mg/Kg	J	Z

Sample ID: SL-114-SA6-SB-9.0-10.0 *Collected:* 8/5/2011 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
MERCURY	0.0212	J	0.0078	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-198-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 8:49:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0314	J	0.0076	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-198-SA5DN-SB-9.0-10.0 *Collected:* 8/5/2011 9:13:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0120	J	0.0076	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

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-114-SA6-SB-4.0-5.0 **Collected: 8/5/2011 3:05:00 PM** **Analysis Type: REA** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.3	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-114-SA6-SB-4.0-5.0 **Collected: 8/5/2011 3:05:00 PM** **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)	0.64	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.85	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-114-SA6-SB-9.0-10.0 **Collected: 8/5/2011 3:15:00 PM** **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)	1.2	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-010-SA6-SB-4.0-5.0 **Collected: 8/5/2011 8:05:00 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
AROCLOR 1016	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1221	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1232	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1242	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1248	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1254	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1260	0.44	U	0.44	MDL	1.9	PQL	ug/Kg	UJ	S
Aroclor 1262	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
Aroclor 1268	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	S
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	S
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	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: DE218 **Laboratory:** LL

EDD Filename: DE218_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-060-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 11:32:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.95	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.43	J	0.41	MDL	1.8	PQL	ug/Kg	U	B

Sample ID: SL-114-SA6-SB-4.0-5.0 *Collected:* 8/5/2011 3:05:00 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	0.56	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-114-SA6-SB-9.0-10.0 *Collected:* 8/5/2011 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 1016	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1221	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1232	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1242	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1248	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1254	6.2		0.37	MDL	1.9	PQL	ug/Kg	J	S
AROCLOR 1260	1.5	J	0.43	MDL	1.9	PQL	ug/Kg	UJ	B, S
Aroclor 1262	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
Aroclor 1268	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	S
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	S

Sample ID: SL-198-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 8:49:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	3.3	J	1.2	MDL	3.8	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-023-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 10:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	17	MDL	350	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: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-023-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 10:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	32	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-114-SA6-SB-4.0-5.0 *Collected:* 8/5/2011 3:05:00 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
BENZO(A)PYRENE	150	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	110	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	58	J	18	MDL	180	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	32	J	18	MDL	180	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	110	J	18	MDL	180	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: SL-022-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 10:30:00 *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	4.2	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z

Sample ID: SL-023-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 10:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	3.9	J	3.5	MDL	8.7	PQL	ug/Kg	J	Z

Sample ID: SL-060-SA5DN-SB-7.0-8.0 *Collected:* 8/5/2011 1:05:00 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
BENZO(A)ANTHRACENE	1.1	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.4	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.94	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.9	MDL	21	PQL	ug/Kg	J	Z
PHENANTHRENE	1.8	J	0.77	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: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-114-SA6-SB-4.0-5.0 *Collected:* 8/5/2011 3:05:00 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
2-METHYLNAPHTHALENE	0.83	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.1	J	6.4	MDL	19	PQL	ug/Kg	J	Z
FLUORENE	0.95	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	1.8	J	0.71	MDL	1.8	PQL	ug/Kg	U	B

Sample ID: SL-114-SA6-SB-9.0-10.0 *Collected:* 8/5/2011 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
ACENAPHTHYLENE	0.38	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.90	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.99	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.7	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	1.4	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-198-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 8:49:00 AM *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	6.7	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	9.0	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	5.9	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	5.9	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z
PHENANTHRENE	5.5	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-114-SA6-SB-9.0-10.0 *Collected:* 8/5/2011 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
METHANOL	200	J	110	MDL	560	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: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_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

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE218

Method Blank Outlier Report

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22208CB221854	8/12/2011 6:54:00 PM	CALCIUM IRON PHOSPHORUS STRONTIUM TIN	4.37 mg/Kg 4.33 mg/Kg 1.72 mg/Kg 0.0260 mg/Kg 1.56 mg/Kg	SL-010-SA6-SB-4.0-5.0 SL-022-SA6-SB-0.0-1.0 SL-023-SA6-SB-0.0-1.0 SL-060-SA5DN-SB-4.0-5.0 SL-060-SA5DN-SB-7.0-8.0 SL-114-SA6-SB-4.0-5.0 SL-114-SA6-SB-9.0-10.0 SL-198-SA5DN-SB-4.0-5.0 SL-198-SA5DN-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-010-SA6-SB-4.0-5.0(RES)	TIN	3.37 mg/Kg	3.37U mg/Kg
SL-022-SA6-SB-0.0-1.0(RES)	TIN	3.37 mg/Kg	3.37U mg/Kg
SL-023-SA6-SB-0.0-1.0(RES)	TIN	2.95 mg/Kg	2.95U mg/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-060-SA5DN-SB-7.0-8.0(RES)	TIN	2.90 mg/Kg	2.90U mg/Kg
SL-114-SA6-SB-4.0-5.0(RES)	TIN	2.96 mg/Kg	2.96U mg/Kg
SL-114-SA6-SB-9.0-10.0(RES)	TIN	3.28 mg/Kg	3.28U mg/Kg
SL-198-SA5DN-SB-4.0-5.0(RES)	TIN	3.38 mg/Kg	3.38U mg/Kg
SL-198-SA5DN-SB-9.0-10.0(RES)	TIN	3.04 mg/Kg	3.04U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22226CB221232A	8/15/2011 12:32:00 PM	VANADIUM	0.0247 mg/Kg	SL-010-SA6-SB-4.0-5.0 SL-022-SA6-SB-0.0-1.0 SL-023-SA6-SB-0.0-1.0 SL-060-SA5DN-SB-4.0-5.0 SL-060-SA5DN-SB-7.0-8.0 SL-114-SA6-SB-4.0-5.0 SL-114-SA6-SB-9.0-10.0 SL-198-SA5DN-SB-4.0-5.0 SL-198-SA5DN-SB-9.0-10.0

Method: 8082
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28289AB241824A	8/24/2011 6:24:00 PM	AROCLOR 1260	0.49 ug/Kg	SL-010-SA6-SB-4.0-5.0 SL-022-SA6-SB-0.0-1.0 SL-023-SA6-SB-0.0-1.0 SL-060-SA5DN-SB-4.0-5.0 SL-060-SA5DN-SB-7.0-8.0 SL-114-SA6-SB-4.0-5.0 SL-114-SA6-SB-9.0-10.0 SL-198-SA5DN-SB-4.0-5.0 SL-198-SA5DN-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8082**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-060-SA5DN-SB-4.0-5.0(RES)	AROCLOR 1260	0.43 ug/Kg	1.8U ug/Kg
SL-114-SA6-SB-9.0-10.0(RES)	AROCLOR 1260	1.5 ug/Kg	1.9U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLD22B260842	8/27/2011 8:42:00 AM	NAPHTHALENE	1.3 ug/Kg	SL-010-SA6-SB-4.0-5.0 SL-022-SA6-SB-0.0-1.0 SL-023-SA6-SB-0.0-1.0 SL-060-SA5DN-SB-4.0-5.0 SL-060-SA5DN-SB-7.0-8.0 SL-114-SA6-SB-4.0-5.0 SL-114-SA6-SB-9.0-10.0 SL-198-SA5DN-SB-4.0-5.0 SL-198-SA5DN-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-114-SA6-SB-4.0-5.0(RES)	NAPHTHALENE	1.8 ug/Kg	1.8U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_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-114-SA6-SB-4.0-5.0MS	DIETHYLENE GLYCOL	41	31	59.00-109.00	28 (20.00)	DIETHYLENE GLYCOL	J (all detects)
SL-114-SA6-SB-4.0-5.0MSD	ETHYLENE GLYCOL	-	52	63.00-107.00	40 (20.00)	ETHYLENE GLYCOL	UJ (all non-detects)
(SL-114-SA6-SB-4.0-5.0)	Propylene glycol	-	55	63.00-107.00	42 (20.00)	Propylene glycol	

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-010-SA6-SB-4.0-5.0MS	FLUORIDE	49	-	80.00-120.00	-	FLUORIDE	
(SL-010-SA6-SB-4.0-5.0							
SL-022-SA6-SB-0.0-1.0							
SL-023-SA6-SB-0.0-1.0							
SL-060-SA5DN-SB-4.0-5.0							J(all detects)
SL-060-SA5DN-SB-7.0-8.0							UJ(all non-detects)
SL-114-SA6-SB-4.0-5.0							
SL-114-SA6-SB-9.0-10.0							
SL-198-SA5DN-SB-4.0-5.0							
SL-198-SA5DN-SB-9.0-10.0)							

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-010-SA6-SB-4.0-5.0DUP (SL-010-SA6-SB-4.0-5.0 SL -022-SA6-SB-0.0-1.0 SL -023-SA6-SB-0.0-1.0 SL -060-SA5DN-SB-4.0-5.0 SL -060-SA5DN-SB-7.0-8.0 SL -114-SA6-SB-4.0-5.0 SL -114-SA6-SB-9.0-10.0 SL -198-SA5DN-SB-4.0-5.0 SL -198-SA5DN-SB-9.0-10.0)	Nitrate-NO3	44	20.00	No Qual, OK by Difference

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_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
P22226CQ221235A (SL-010-SA6-SB-4.0-5.0 SL -022-SA6-SB-0.0-1.0 SL -023-SA6-SB-0.0-1.0 SL -060-SA5DN -SB-4.0-5.0 SL -060-SA5DN -SB-7.0-8.0 SL -114-SA6-SB-4.0-5.0 SL -114-SA6-SB-9.0-10.0 SL -198-SA5DN -SB-4.0-5.0 SL -198-SA5DN -SB-9.0-10.0)	ANTIMONY	54	-	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
P22208CQ221858 (SL-010-SA6-SB-4.0-5.0 SL -022-SA6-SB-0.0-1.0 SL -023-SA6-SB-0.0-1.0 SL -060-SA5DN -SB-4.0-5.0 SL -060-SA5DN -SB-7.0-8.0 SL -114-SA6-SB-4.0-5.0 SL -114-SA6-SB-9.0-10.0 SL -198-SA5DN -SB-4.0-5.0 SL -198-SA5DN -SB-9.0-10.0)	ALUMINUM TITANIUM	121 142	- -	80.00-120.00 80.00-120.00	- -	ALUMINUM TITANIUM	No Qual, SRM within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8082**
Matrix: **SO**

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
SL-010-SA6-SB-4.0 -5.0	TETRACHLORO-M-XYLENE	27	53.00-139.00	All Target Analytes	J (all detects) UJ (all non-detects)
SL-114-SA6-SB-9.0 -10.0	TETRACHLORO-M-XYLENE	43	53.00-139.00	All Target Analytes	J(all detects) UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-010-SA6-SB-4.0-5.0	BORON	J	4.54	5.61	PQL	mg/Kg	J (all detects)
	SODIUM	J	109	112	PQL	mg/Kg	
	TIN	J	3.37	11.2	PQL	mg/Kg	
	Zirconium	J	2.98	5.61	PQL	mg/Kg	
SL-022-SA6-SB-0.0-1.0	BORON	J	4.97	5.05	PQL	mg/Kg	J (all detects)
	TIN	J	3.37	10.1	PQL	mg/Kg	
	Zirconium	J	2.13	5.05	PQL	mg/Kg	
SL-023-SA6-SB-0.0-1.0	BORON	J	3.38	5.12	PQL	mg/Kg	J (all detects)
	SODIUM	J	88.2	102	PQL	mg/Kg	
	TIN	J	2.95	10.2	PQL	mg/Kg	
	Zirconium	J	1.30	5.12	PQL	mg/Kg	
SL-060-SA5DN-SB-4.0-5.0	SODIUM	J	94.5	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.78	10.1	PQL	mg/Kg	
SL-060-SA5DN-SB-7.0-8.0	TIN	J	2.90	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.64	5.67	PQL	mg/Kg	
SL-114-SA6-SB-4.0-5.0	BORON	J	4.32	5.33	PQL	mg/Kg	J (all detects)
	TIN	J	2.96	10.7	PQL	mg/Kg	
	Zirconium	J	1.83	5.33	PQL	mg/Kg	
SL-114-SA6-SB-9.0-10.0	TIN	J	3.28	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.59	5.45	PQL	mg/Kg	
SL-198-SA5DN-SB-4.0-5.0	TIN	J	3.38	11.4	PQL	mg/Kg	J (all detects)
SL-198-SA5DN-SB-9.0-10.0	TIN	J	3.04	10.8	PQL	mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-010-SA6-SB-4.0-5.0	CADMIUM	J	0.0497	0.112	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0695	0.449	PQL	mg/Kg	
	SILVER	J	0.0255	0.112	PQL	mg/Kg	
SL-022-SA6-SB-0.0-1.0	CADMIUM	J	0.0504	0.105	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.136	0.420	PQL	mg/Kg	
SL-023-SA6-SB-0.0-1.0	CADMIUM	J	0.0848	0.103	PQL	mg/Kg	J (all detects)
SL-060-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.0923	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0789	0.413	PQL	mg/Kg	
	SILVER	J	0.0514	0.103	PQL	mg/Kg	
SL-060-SA5DN-SB-7.0-8.0	ANTIMONY	J	0.124	0.227	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0825	0.454	PQL	mg/Kg	
	SILVER	J	0.0490	0.113	PQL	mg/Kg	
SL-114-SA6-SB-4.0-5.0	CADMIUM	J	0.0779	0.102	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0733	0.406	PQL	mg/Kg	
	SILVER	J	0.0259	0.102	PQL	mg/Kg	
SL-114-SA6-SB-9.0-10.0	ANTIMONY	J	0.0966	0.222	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0790	0.111	PQL	mg/Kg	
	SELENIUM	J	0.223	0.445	PQL	mg/Kg	
SL-198-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.160	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.251	0.443	PQL	mg/Kg	
SL-198-SA5DN-SB-9.0-10.0	SELENIUM	J	0.0819	0.441	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0482	0.110	PQL	mg/Kg	

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

Reporting Limit Outliers

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-114-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.80	1.1	PQL	mg/Kg	J (all detects)
SL-198-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.52	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-022-SA6-SB-0.0-1.0	MERCURY	J	0.0189	0.102	PQL	mg/Kg	J (all detects)
SL-023-SA6-SB-0.0-1.0	MERCURY	J	0.0574	0.0992	PQL	mg/Kg	J (all detects)
SL-114-SA6-SB-9.0-10.0	MERCURY	J	0.0212	0.110	PQL	mg/Kg	J (all detects)
SL-198-SA5DN-SB-4.0-5.0	MERCURY	J	0.0314	0.107	PQL	mg/Kg	J (all detects)
SL-198-SA5DN-SB-9.0-10.0	MERCURY	J	0.0120	0.108	PQL	mg/Kg	J (all detects)

Method: 8015B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-114-SA6-SB-9.0-10.0	METHANOL	J	200	560	PQL	ug/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-114-SA6-SB-4.0-5.0	EFH (C21-C30) EFH (C30-C40)	J J	0.64 0.85	1.3 1.3	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-114-SA6-SB-9.0-10.0	EFH (C21-C30)	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-060-SA5DN-SB-4.0-5.0	AROCLOR 1254 AROCLOR 1260	J J	0.95 0.43	1.8 1.8	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-114-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.56	1.8	PQL	ug/Kg	J (all detects)
SL-114-SA6-SB-9.0-10.0	AROCLOR 1260	J	1.5	1.9	PQL	ug/Kg	J (all detects)
SL-198-SA5DN-SB-4.0-5.0	Aroclor 5460	J	3.3	3.8	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-023-SA6-SB-0.0-1.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	350	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	32	170	PQL	ug/Kg	
SL-114-SA6-SB-4.0-5.0	BENZO(A)PYRENE	J	150	180	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	110	180	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	58	180	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	32	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	110	180	PQL	ug/Kg	

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-022-SA6-SB-0.0-1.0	PYRENE	J	4.2	8.8	PQL	ug/Kg	J (all detects)
SL-023-SA6-SB-0.0-1.0	PYRENE	J	3.9	8.7	PQL	ug/Kg	J (all detects)
SL-060-SA5DN-SB-7.0-8.0	BENZO(A)ANTHRACENE	J	1.1	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.4	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.94	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	21	PQL	ug/Kg	
	PHENANTHRENE	J	1.8	1.9	PQL	ug/Kg	
SL-114-SA6-SB-4.0-5.0	2-METHYLNAPHTHALENE	J	0.83	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.1	19	PQL	ug/Kg	
	FLUORENE	J	0.95	1.8	PQL	ug/Kg	
SL-114-SA6-SB-9.0-10.0	ACENAPHTHYLENE	J	0.38	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.90	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.99	1.9	PQL	ug/Kg	
	CHRYSENE	J	1.7	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.4	1.9	PQL	ug/Kg	
	PYRENE	J	1.3	1.9	PQL	ug/Kg	
SL-198-SA5DN-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	6.7	9.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	9.0	9.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	5.9	9.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	5.9	9.7	PQL	ug/Kg	
	PHENANTHRENE	J	5.5	9.7	PQL	ug/Kg	

LDC #: 26533G4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/2/11
SDG #: DE218 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: V
2nd Reviewer: A

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	See DE217
VII.	Duplicate Sample Analysis	N	
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: Soil

1	SL-010-SA6-SB-4.0-5.0	11	MS	21		31	
2	SL-022-SA6-SB-0.0-1.0	12		22		32	
3	SL-023-SA6-SB-0.0-1.0	13		23		33	
4	SL-114-SA6-SB-4.0-5.0	14		24		34	
5	SL-114-SA6-SB-9.0-10.0	15		25		35	
6	SL-060-SA5DN-SB-4.0-5.0	16		26		36	
7	SL-060-SA5DN-SB-7.0-5.0	17		27		37	
8	SL-198-SA5DN-SB-4.0-5.0	18		28		38	
9	SL-198-SA5DN-SB-9.0-10.0	19		29		39	
10		20		30		40	

Notes: _____

LDC #: 26533G4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: 200X
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	5	6	7	8						
Sb			0.36	0.36	0.097	0.092	0.12	0.16						
Be			0.053	0.053										
Tl			0.095	0.095										
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.

SAMPLE DELIVERY GROUP

DE219

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
08-Aug-2011	TB-080811	6369638	TB	5030B	8015M	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3050B	6010B	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3050B	6020	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3060A	7199	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3550B	8015B	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3550B	8015M	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3550B	8082	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3550B	8270C	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3550B	8270C SIM	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	5035	8015M	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	METHOD	300.0	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	METHOD	314.0	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	METHOD	7471A	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	METHOD	8015B	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	METHOD	8015M	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3050B	6010B	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3050B	6020	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3060A	7199	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3550B	8015B	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3550B	8015M	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3550B	8082	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3550B	8270C	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3550B	8270C SIM	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	5035	8015M	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	METHOD	300.0	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	METHOD	7471A	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	METHOD	8015B	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	METHOD	8015M	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3050B	6010B	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3050B	6020	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3060A	7199	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3550B	8082	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3550B	8270C	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3550B	8270C SIM	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	METHOD	300.0	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	METHOD	314.0	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	METHOD	7471A	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3050B	6010B	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3050B	6020	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3060A	7199	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3550B	8082	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3550B	8270C	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3550B	8270C SIM	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	METHOD	300.0	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	METHOD	314.0	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	METHOD	7471A	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3050B	6010B	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3050B	6020	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3060A	7199	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3550B	8082	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3550B	8270C	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3550B	8270C SIM	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	8330	8330A	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	METHOD	300.0	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	METHOD	314.0	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	METHOD	7471A	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0DU	P369631D270814A	DUP	METHOD	314.0	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0DU	P369631D271332B	DUP	METHOD	300.0	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0MS	P369631R270837A	MS	METHOD	314.0	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0MS	P369631R271347B	MS	METHOD	300.0	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3050B	6010B	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3050B	6020	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3060A	7199	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3550B	8015B	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3550B	8015M	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3550B	8082	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3550B	8270C	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3550B	8270C SIM	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	5035	8015M	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	METHOD	300.0	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	METHOD	314.0	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	METHOD	7471A	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	METHOD	8015B	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	METHOD	8015M	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3050B	6010B	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3050B	6020	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3060A	7199	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3550B	8015B	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3550B	8015M	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3550B	8082	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3550B	8270C	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3550B	8270C SIM	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	5035	8015M	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	METHOD	300.0	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	METHOD	314.0	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	METHOD	7471A	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	METHOD	8015B	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	METHOD	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-031-SA6-SB-4.0-5.0 **Collected:** 8/8/2011 2:50:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.2		0.87	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-031-SA6-SB-9.0-10.0 **Collected:** 8/8/2011 3:00:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.4		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-083-SA5DN-SB-4.0-5.0 **Collected:** 8/8/2011 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	13.8		0.93	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-153-SA5DN-SB-4.0-5.0 **Collected:** 8/8/2011 8:34:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.92	U	0.92	MDL	1.2	PQL	mg/Kg	R	Q

Sample ID: SL-153-SA5DN-SB-7.0-8.0 **Collected:** 8/8/2011 9:50:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.9		0.91	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-273-SA6-SB-4.0-5.0 **Collected:** 8/8/2011 8:20:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.4		0.87	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-273-SA6-SB-9.0-10.0 **Collected:** 8/8/2011 8:30:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.0		0.90	MDL	1.1	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: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

Method: **6010B** ***Matrix:*** **SO**

Sample ID: **SL-031-SA6-SB-4.0-5.0** ***Collected:*** **8/8/2011 2:50:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
BORON	3.39	J	0.379	MDL	5.27	PQL	mg/Kg	U	B
MANGANESE	365		0.0379	MDL	0.527	PQL	mg/Kg	J	Q, E
PHOSPHORUS	322		0.369	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	3500		11.9	MDL	52.7	PQL	mg/Kg	J	Q
SODIUM	79.7	J	6.27	MDL	105	PQL	mg/Kg	J	Z
TIN	2.31	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.11	J	0.484	MDL	5.27	PQL	mg/Kg	J	Z

Sample ID: **SL-031-SA6-SB-9.0-10.0** ***Collected:*** **8/8/2011 3:00:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
BORON	3.03	J	0.387	MDL	5.37	PQL	mg/Kg	U	B
MANGANESE	190		0.0387	MDL	0.537	PQL	mg/Kg	J	Q, E
PHOSPHORUS	222		0.376	MDL	10.7	PQL	mg/Kg	J	Q
POTASSIUM	2830		12.1	MDL	53.7	PQL	mg/Kg	J	Q
TIN	2.77	J	0.344	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	2.25	J	0.494	MDL	5.37	PQL	mg/Kg	J	Z

Sample ID: **SL-083-SA5DN-SB-4.0-5.0** ***Collected:*** **8/8/2011 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*
MANGANESE	406		0.0398	MDL	0.553	PQL	mg/Kg	J	Q, E
PHOSPHORUS	452		0.387	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	3010		12.5	MDL	55.3	PQL	mg/Kg	J	Q
TIN	2.13	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	4.69	J	0.509	MDL	5.53	PQL	mg/Kg	J	Z

Sample ID: **SL-153-SA5DN-SB-4.0-5.0** ***Collected:*** **8/8/2011 8:34:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
BORON	5.35	J	0.414	MDL	5.75	PQL	mg/Kg	J	Z
MANGANESE	522		0.0414	MDL	0.575	PQL	mg/Kg	J	Q, E
PHOSPHORUS	423		0.403	MDL	11.5	PQL	mg/Kg	J	Q
POTASSIUM	5180		13.0	MDL	57.5	PQL	mg/Kg	J	Q
TIN	3.16	J	0.368	MDL	11.5	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: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-153-SA5DN-SB-4.0-5.0 **Collected: 8/8/2011 8:34:00 AM** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	5.34	J	0.529	MDL	5.75	PQL	mg/Kg	J	Z

Sample ID: SL-153-SA5DN-SB-7.0-8.0 **Collected: 8/8/2011 9:50:00 AM** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.78	J	0.409	MDL	5.68	PQL	mg/Kg	U	B
MANGANESE	427		0.0409	MDL	0.568	PQL	mg/Kg	J	Q, E
PHOSPHORUS	805		0.398	MDL	11.4	PQL	mg/Kg	J	Q
POTASSIUM	3640		12.8	MDL	56.8	PQL	mg/Kg	J	Q
TIN	2.86	J	0.364	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: SL-273-SA6-SB-4.0-5.0 **Collected: 8/8/2011 8:20:00 AM** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.76	J	0.378	MDL	5.25	PQL	mg/Kg	U	B
MANGANESE	247		0.0378	MDL	0.525	PQL	mg/Kg	J	Q, E
PHOSPHORUS	350		0.367	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	2910		11.9	MDL	52.5	PQL	mg/Kg	J	Q
TIN	2.54	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.30	J	0.483	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: SL-273-SA6-SB-9.0-10.0 **Collected: 8/8/2011 8:30:00 AM** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.48	J	0.403	MDL	5.60	PQL	mg/Kg	U	B
MANGANESE	255		0.0403	MDL	0.560	PQL	mg/Kg	J	Q, E
PHOSPHORUS	306		0.392	MDL	11.2	PQL	mg/Kg	J	Q
POTASSIUM	2680		12.7	MDL	56.0	PQL	mg/Kg	J	Q
TIN	2.81	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	1.95	J	0.515	MDL	5.60	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-031-SA6-SB-4.0-5.0 **Collected: 8/8/2011 2:50:00 PM** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.148	J	0.0617	MDL	0.425	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-031-SA6-SB-4.0-5.0 **Collected: 8/8/2011 2:50:00 PM** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.136	J	0.0787	MDL	0.213	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.65		0.0851	MDL	0.425	PQL	mg/Kg	J	Q
CHROMIUM	17.5		0.128	MDL	0.425	PQL	mg/Kg	J	E, A
COBALT	6.66		0.0213	MDL	0.106	PQL	mg/Kg	J	E
COPPER	10.9		0.0851	MDL	0.425	PQL	mg/Kg	J	E
LEAD	6.53		0.0108	MDL	0.213	PQL	mg/Kg	J	Q, Q
NICKEL	13.3		0.106	MDL	0.425	PQL	mg/Kg	J	Q, A
SILVER	0.0325	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	35.7		0.0234	MDL	0.106	PQL	mg/Kg	J	E, A
ZINC	67.8		0.596	MDL	3.19	PQL	mg/Kg	J	Q, E

Sample ID: SL-031-SA6-SB-9.0-10.0 **Collected: 8/8/2011 3:00:00 PM** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.212	J	0.0629	MDL	0.434	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-031-SA6-SB-9.0-10.0 **Collected: 8/8/2011 3:00:00 PM** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.104	J	0.0803	MDL	0.217	PQL	mg/Kg	UJ	Q, B
ARSENIC	3.33		0.0868	MDL	0.434	PQL	mg/Kg	J	Q
CHROMIUM	19.5		0.130	MDL	0.434	PQL	mg/Kg	J	E, A
COBALT	8.09		0.0217	MDL	0.108	PQL	mg/Kg	J	E
COPPER	11.3		0.0868	MDL	0.434	PQL	mg/Kg	J	E
LEAD	6.37		0.0111	MDL	0.217	PQL	mg/Kg	J	Q, Q
NICKEL	15.2		0.108	MDL	0.434	PQL	mg/Kg	J	Q, A
SILVER	0.0579	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	39.1		0.0239	MDL	0.108	PQL	mg/Kg	J	E, A
ZINC	67.8		0.607	MDL	3.25	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: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 ***Matrix:*** SO

Sample ID: SL-083-SA5DN-SB-4.0-5.0 ***Collected:*** 8/8/2011 11:45:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.108	J	0.0648	MDL	0.447	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-083-SA5DN-SB-4.0-5.0 ***Collected:*** 8/8/2011 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	0.330		0.0826	MDL	0.223	PQL	mg/Kg	UJ	Q, B
ARSENIC	8.55		0.0893	MDL	0.447	PQL	mg/Kg	J	Q
CHROMIUM	39.0		0.134	MDL	0.447	PQL	mg/Kg	J	E, A
COBALT	13.7		0.0223	MDL	0.112	PQL	mg/Kg	J	E
COPPER	20.1		0.0893	MDL	0.447	PQL	mg/Kg	J	E
LEAD	12.3		0.0114	MDL	0.223	PQL	mg/Kg	J	Q, Q
NICKEL	26.6		0.112	MDL	0.447	PQL	mg/Kg	J	Q, A
SILVER	0.0528	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	73.5		0.0246	MDL	0.112	PQL	mg/Kg	J	E, A
ZINC	82.8		0.625	MDL	3.35	PQL	mg/Kg	J	Q, E

Sample ID: SL-153-SA5DN-SB-4.0-5.0 ***Collected:*** 8/8/2011 8:34:00 AM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.236	J	0.0667	MDL	0.460	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-153-SA5DN-SB-4.0-5.0 ***Collected:*** 8/8/2011 8:34:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.328		0.0852	MDL	0.230	PQL	mg/Kg	UJ	Q, B
ARSENIC	8.92		0.0921	MDL	0.460	PQL	mg/Kg	J	Q
CHROMIUM	41.0		0.138	MDL	0.460	PQL	mg/Kg	J	E, A
COBALT	15.3		0.0230	MDL	0.115	PQL	mg/Kg	J	E
COPPER	23.1		0.0921	MDL	0.460	PQL	mg/Kg	J	E
LEAD	12.0		0.0117	MDL	0.230	PQL	mg/Kg	J	Q, Q
NICKEL	29.2		0.115	MDL	0.460	PQL	mg/Kg	J	Q, A
SILVER	0.0524	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z
VANADIUM	75.9		0.0253	MDL	0.115	PQL	mg/Kg	J	E, A
ZINC	97.2		0.644	MDL	3.45	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: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 ***Matrix:*** SO

Sample ID: SL-153-SA5DN-SB-7.0-8.0 ***Collected:*** 8/8/2011 9:50:00 AM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.376	J	0.0659	MDL	0.455	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-153-SA5DN-SB-7.0-8.0 ***Collected:*** 8/8/2011 9:50:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.335		0.0841	MDL	0.227	PQL	mg/Kg	UJ	Q, B
ARSENIC	12.7		0.0909	MDL	0.455	PQL	mg/Kg	J	Q
CHROMIUM	48.7		0.136	MDL	0.455	PQL	mg/Kg	J	E, A
COBALT	14.4		0.0227	MDL	0.114	PQL	mg/Kg	J	E
COPPER	28.2		0.0909	MDL	0.455	PQL	mg/Kg	J	E
LEAD	14.8		0.0116	MDL	0.227	PQL	mg/Kg	J	Q, Q
NICKEL	40.2		0.114	MDL	0.455	PQL	mg/Kg	J	Q, A
VANADIUM	77.2		0.0250	MDL	0.114	PQL	mg/Kg	J	E, A
ZINC	110		0.637	MDL	3.41	PQL	mg/Kg	J	Q, E

Sample ID: SL-273-SA6-SB-4.0-5.0 ***Collected:*** 8/8/2011 8:20:00 AM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0784	J	0.0615	MDL	0.424	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-273-SA6-SB-4.0-5.0 ***Collected:*** 8/8/2011 8:20:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.117	J	0.0784	MDL	0.212	PQL	mg/Kg	UJ	Q, B
ARSENIC	3.73		0.0848	MDL	0.424	PQL	mg/Kg	J	Q
CADMIUM	0.0819	J	0.0466	MDL	0.106	PQL	mg/Kg	J	Z
CHROMIUM	14.2		0.127	MDL	0.424	PQL	mg/Kg	J	E, A
COBALT	5.53		0.0212	MDL	0.106	PQL	mg/Kg	J	E
COPPER	6.36		0.0848	MDL	0.424	PQL	mg/Kg	J	E
LEAD	4.65		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, Q
NICKEL	8.89		0.106	MDL	0.424	PQL	mg/Kg	J	Q, A
VANADIUM	32.2		0.0233	MDL	0.106	PQL	mg/Kg	J	E, A
ZINC	71.6		0.594	MDL	3.18	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: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-273-SA6-SB-9.0-10.0 **Collected: 8/8/2011 8:30:00 AM** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.0650	MDL	0.448	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-273-SA6-SB-9.0-10.0 **Collected: 8/8/2011 8:30:00 AM** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0912	J	0.0829	MDL	0.224	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.05		0.0896	MDL	0.448	PQL	mg/Kg	J	Q
CADMIUM	0.0906	J	0.0493	MDL	0.112	PQL	mg/Kg	J	Z
CHROMIUM	15.2		0.134	MDL	0.448	PQL	mg/Kg	J	E, A
COBALT	6.34		0.0224	MDL	0.112	PQL	mg/Kg	J	E
COPPER	7.01		0.0896	MDL	0.448	PQL	mg/Kg	J	E
LEAD	6.19		0.0114	MDL	0.224	PQL	mg/Kg	J	Q, Q
NICKEL	9.87		0.112	MDL	0.448	PQL	mg/Kg	J	Q, A
SILVER	0.0307	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	32.9		0.0246	MDL	0.112	PQL	mg/Kg	J	E, A
ZINC	64.7		0.627	MDL	3.36	PQL	mg/Kg	J	Q, E

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-031-SA6-SB-4.0-5.0 **Collected: 8/8/2011 2:50:00 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	0.36	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-031-SA6-SB-9.0-10.0 **Collected: 8/8/2011 3:00:00 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	0.48	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA5DN-SB-4.0-5.0 **Collected: 8/8/2011 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
HEXAVALENT CHROMIUM	0.52	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-153-SA5DN-SB-4.0-5.0 *Collected:* 8/8/2011 8:34:00 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	0.49	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-153-SA5DN-SB-7.0-8.0 *Collected:* 8/8/2011 9:50:00 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	0.26	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-031-SA6-SB-9.0-10.0 *Collected:* 8/8/2011 3:00:00 PM *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)	0.50	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.87	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-273-SA6-SB-4.0-5.0 *Collected:* 8/8/2011 8:20:00 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)	0.56	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-031-SA6-SB-4.0-5.0 *Collected:* 8/8/2011 2:50:00 PM *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
BENZOIC ACID	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-031-SA6-SB-9.0-10.0 *Collected:* 8/8/2011 3:00:00 PM *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

* 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: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: **SL-031-SA6-SB-9.0-10.0** ***Collected:*** **8/8/2011 3:00:00 PM** ***Analysis Type:*** **RES-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: **SL-083-SA5DN-SB-4.0-5.0** ***Collected:*** **8/8/2011 11:45:00** ***Analysis Type:*** **RES-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	570	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	570	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: **SL-153-SA5DN-SB-4.0-5.0** ***Collected:*** **8/8/2011 8:34:00 AM** ***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	580	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	580	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: **SL-153-SA5DN-SB-7.0-8.0** ***Collected:*** **8/8/2011 9:50:00 AM** ***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
BENZOIC ACID	190	U	190	MDL	570	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: **SL-273-SA6-SB-4.0-5.0** ***Collected:*** **8/8/2011 8:20:00 AM** ***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
BENZOIC ACID	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: **SL-273-SA6-SB-9.0-10.0** ***Collected:*** **8/8/2011 8:30:00 AM** ***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

* 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: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: **SL-273-SA6-SB-9.0-10.0** ***Collected:*** **8/8/2011 8:30:00 AM** ***Analysis Type:*** **RES-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	190	U	190	MDL	570	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Method Category: SVOA

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

Sample ID: **SL-031-SA6-SB-4.0-5.0** ***Collected:*** **8/8/2011 2:50:00 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
ANTHRACENE	0.38	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	6.4	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: **SL-083-SA5DN-SB-4.0-5.0** ***Collected:*** **8/8/2011 11:45:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.6	J	6.8	MDL	21	PQL	ug/Kg	J	Z

Sample ID: **SL-153-SA5DN-SB-7.0-8.0** ***Collected:*** **8/8/2011 9:50:00 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	12	J	6.8	MDL	20	PQL	ug/Kg	J	Z

Sample ID: **SL-273-SA6-SB-9.0-10.0** ***Collected:*** **8/8/2011 8:30:00 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(B)FLUORANTHENE	1.1	J	0.75	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: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_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

Data Qualifier Summary

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE219

Method Blank Outlier Report

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22408BB220447	8/16/2011 4:47:00 AM	ALUMINUM	7.29 mg/Kg	SL-031-SA6-SB-4.0-5.0
		BORON	0.823 mg/Kg	SL-031-SA6-SB-9.0-10.0
		CALCIUM	16.5 mg/Kg	SL-083-SA5DN-SB-4.0-5.0
		MAGNESIUM	0.482 mg/Kg	SL-153-SA5DN-SB-4.0-5.0
		PHOSPHORUS	1.19 mg/Kg	SL-153-SA5DN-SB-7.0-8.0
		STRONTIUM	0.0910 mg/Kg	SL-273-SA6-SB-4.0-5.0
		TIN	1.66 mg/Kg	SL-273-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-031-SA6-SB-4.0-5.0(RES)	BORON	3.39 mg/Kg	3.39U mg/Kg
SL-031-SA6-SB-4.0-5.0(RES)	TIN	2.31 mg/Kg	2.31U mg/Kg
SL-031-SA6-SB-9.0-10.0(RES)	BORON	3.03 mg/Kg	3.03U mg/Kg
SL-031-SA6-SB-9.0-10.0(RES)	TIN	2.77 mg/Kg	2.77U mg/Kg
SL-083-SA5DN-SB-4.0-5.0(RES)	TIN	2.13 mg/Kg	2.13U mg/Kg
SL-153-SA5DN-SB-4.0-5.0(RES)	TIN	3.16 mg/Kg	3.16U mg/Kg
SL-153-SA5DN-SB-7.0-8.0(RES)	BORON	3.78 mg/Kg	3.78U mg/Kg
SL-153-SA5DN-SB-7.0-8.0(RES)	TIN	2.86 mg/Kg	2.86U mg/Kg
SL-273-SA6-SB-4.0-5.0(RES)	BORON	1.76 mg/Kg	1.76U mg/Kg
SL-273-SA6-SB-4.0-5.0(RES)	TIN	2.54 mg/Kg	2.54U mg/Kg
SL-273-SA6-SB-9.0-10.0(RES)	BORON	2.48 mg/Kg	2.48U mg/Kg
SL-273-SA6-SB-9.0-10.0(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **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-083-SA5DN-SB-4.0-5.0MS (SL-031-SA6-SB-4.0-5.0 SL-031-SA6-SB-9.0-10.0 SL-083-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-7.0-8.0 SL-273-SA6-SB-4.0-5.0 SL-273-SA6-SB-9.0-10.0)	FLUORIDE	27	-	80.00-120.00	-	FLUORIDE	J (all detects) R (all non-detects)

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

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
SL-083-SA5DN-SB-4.0-5.0DUP (SL-031-SA6-SB-4.0-5.0 SL-031-SA6-SB-9.0-10.0 SL-083-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-7.0-8.0 SL-273-SA6-SB-4.0-5.0 SL-273-SA6-SB-9.0-10.0)	FLUORIDE	53	20.00	J (all detects) UJ (all non-detects)

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_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
P22408BQ220451	ALUMINUM	141	-	80.00-120.00	-	ALUMINUM	
(SL-031-SA6-SB-4.0-5.0	IRON	135	-	80.00-120.00	-	IRON	
SL -031-SA6-SB-9.0-10.0	TITANIUM	182	-	80.00-120.00	-	TITANIUM	No Qual, SRM within QC Limits
SL -083-SA5DN -SB-4.0-5.0							
SL -153-SA5DN -SB-4.0-5.0							
SL -153-SA5DN -SB-7.0-8.0							
SL -273-SA6-SB-4.0-5.0							
SL -273-SA6-SB-9.0-10.0)							

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8LELCSQ261858	4,6-DINITRO-2-METHYLPHENOL	31	-	46.00-120.00	-	4,6-DINITRO-2-METHYLPHEN	
(SL-031-SA6-SB-4.0-5.0	BENZOIC ACID	36	-	62.00-113.00	-	BENZOIC ACID	
SL -031-SA6-SB-9.0-10.0	BIS(2-CHLOROETHOXY)METHA	67	-	70.00-118.00	-	BIS(2-CHLOROETHOXY)METH	J(all detects) UJ(all non-detects)
SL -083-SA5DN -SB-4.0-5.0							
SL -153-SA5DN -SB-4.0-5.0							
SL -153-SA5DN -SB-7.0-8.0							
SL -273-SA6-SB-4.0-5.0							
SL -273-SA6-SB-9.0-10.0)							

Reporting Limit Outliers

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA6-SB-4.0-5.0	BORON	J	3.39	5.27	PQL	mg/Kg	J (all detects)
	SODIUM	J	79.7	105	PQL	mg/Kg	
	TIN	J	2.31	10.5	PQL	mg/Kg	
	Zirconium	J	2.11	5.27	PQL	mg/Kg	
SL-031-SA6-SB-9.0-10.0	BORON	J	3.03	5.37	PQL	mg/Kg	J (all detects)
	TIN	J	2.77	10.7	PQL	mg/Kg	
	Zirconium	J	2.25	5.37	PQL	mg/Kg	
SL-083-SA5DN-SB-4.0-5.0	TIN	J	2.13	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.69	5.53	PQL	mg/Kg	
SL-153-SA5DN-SB-4.0-5.0	BORON	J	5.35	5.75	PQL	mg/Kg	J (all detects)
	TIN	J	3.16	11.5	PQL	mg/Kg	
	Zirconium	J	5.34	5.75	PQL	mg/Kg	
SL-153-SA5DN-SB-7.0-8.0	BORON	J	3.78	5.68	PQL	mg/Kg	J (all detects)
	TIN	J	2.86	11.4	PQL	mg/Kg	
SL-273-SA6-SB-4.0-5.0	BORON	J	1.76	5.25	PQL	mg/Kg	J (all detects)
	TIN	J	2.54	10.5	PQL	mg/Kg	
	Zirconium	J	1.30	5.25	PQL	mg/Kg	
SL-273-SA6-SB-9.0-10.0	BORON	J	2.48	5.60	PQL	mg/Kg	J (all detects)
	TIN	J	2.81	11.2	PQL	mg/Kg	
	Zirconium	J	1.95	5.60	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA6-SB-4.0-5.0	ANTIMONY	J	0.136	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.148	0.425	PQL	mg/Kg	
	SILVER	J	0.0325	0.106	PQL	mg/Kg	
SL-031-SA6-SB-9.0-10.0	ANTIMONY	J	0.104	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.212	0.434	PQL	mg/Kg	
	SILVER	J	0.0579	0.108	PQL	mg/Kg	
SL-083-SA5DN-SB-4.0-5.0	SELENIUM	J	0.108	0.447	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0528	0.112	PQL	mg/Kg	
SL-153-SA5DN-SB-4.0-5.0	SELENIUM	J	0.236	0.460	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0524	0.115	PQL	mg/Kg	
SL-153-SA5DN-SB-7.0-8.0	SELENIUM	J	0.376	0.455	PQL	mg/Kg	J (all detects)
SL-273-SA6-SB-4.0-5.0	ANTIMONY	J	0.117	0.212	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0819	0.106	PQL	mg/Kg	
	SELENIUM	J	0.0784	0.424	PQL	mg/Kg	
SL-273-SA6-SB-9.0-10.0	ANTIMONY	J	0.0912	0.224	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0906	0.112	PQL	mg/Kg	
	SELENIUM	J	0.144	0.448	PQL	mg/Kg	
	SILVER	J	0.0307	0.112	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.36	1.1	PQL	mg/Kg	J (all detects)
SL-031-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.48	1.1	PQL	mg/Kg	J (all detects)
SL-083-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.52	1.2	PQL	mg/Kg	J (all detects)
SL-153-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.49	1.2	PQL	mg/Kg	J (all detects)
SL-153-SA5DN-SB-7.0-8.0	HEXAVALENT CHROMIUM	J	0.26	1.2	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA6-SB-9.0-10.0	EFH (C21-C30) EFH (C30-C40)	J J	0.50 0.87	1.3 1.3	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-273-SA6-SB-4.0-5.0	EFH (C30-C40)	J	0.56	1.3	PQL	mg/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA6-SB-4.0-5.0	ANTHRACENE BENZO(G,H,I)PERYLENE BIS(2-ETHYLHEXYL)PHTHALATE INDENO(1,2,3-CD)PYRENE	J J J J	0.38 1.6 11 1.2	1.8 1.8 19 1.8	PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)
SL-083-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.6	21	PQL	ug/Kg	J (all detects)
SL-153-SA5DN-SB-7.0-8.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	20	PQL	ug/Kg	J (all detects)
SL-273-SA6-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	1.1	1.9	PQL	ug/Kg	J (all detects)

LDC #: 26533H4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/7/11
SDG #: DE219 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MM
2nd Reviewer: A

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	See DE220.
VII.	Duplicate Sample Analysis	SW	
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Cr, Ni, V. J/UJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

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

Validated Samples:

1	SL-083-SA5DN-SB-4.0-5.0	11	MB	21		31	
2	SL-153-SA5DN-SB-4.0-5.0	12		22		32	
3	SL-153-SA5DN-SB-7.0-8.0	13		23		33	
4	SL-273-SA6-SB-4.0-5.0	14		24		34	
5	SL-273-SA6-SB-9.0-10.0	15		25		35	
6	SL-031-SA6-SB-4.0-5.0	16		26		36	
7	SL-031-SA6-SB-9.0-10.0	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 26533H4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: 200X
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	4	5	6	7			
Sb			0.38	0.38	0.33	0.33	0.33	0.12	0.091	0.14	0.10			
Be			0.057	0.057										

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

DE220

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-Aug-2011	TB-080911	6371362	TB	5030B	8015M	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3050B	6010B	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3050B	6020	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3060A	7199	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3550B	8015B	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3550B	8015M	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3550B	8082	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3550B	8270C	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3550B	8270C SIM	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	5035	8015M	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	METHOD	300.0	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	METHOD	314.0	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	METHOD	7471A	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	METHOD	8015B	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	METHOD	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3050B	6010B	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3050B	6020	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3060A	7199	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3546	1625C	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3550B	8015B	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3550B	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3550B	8082	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3550B	8270C	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3550B	8270C SIM	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	5035	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	8330	8330A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	300.0	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	314.0	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	7471A	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	8015B	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	8315A	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	9012B	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3050B	6010B	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3050B	6020	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3060A	7199	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3546	1625C	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3550B	8015B	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3550B	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3550B	8082	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3550B	8270C	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3550B	8270C SIM	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	5035	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	8330	8330A	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	300.0	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	314.0	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	7471A	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	8015B	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	8315A	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	9012B	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3050B	6010B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3050B	6020	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3060A	7199	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3550B	8015B	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3550B	8015M	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3550B	8082	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3550B	8270C	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3550B	8270C SIM	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	5035	8015M	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	METHOD	300.0	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	METHOD	314.0	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	METHOD	7471A	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	METHOD	8015B	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	METHOD	8015M	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3050B	6010B	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3050B	6020	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3060A	7199	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3550B	8082	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3550B	8270C	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3550B	8270C SIM	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	METHOD	300.0	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	METHOD	314.0	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	METHOD	6850	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	METHOD	7471A	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3005A	6010B	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3020A	6020	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3510C	8015B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3510C	8015M	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3510C	8082	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3510C	8270C	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3510C	8270C SIM	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3520C	1625C	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	5030B	8015M	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	5030B	8260B	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	5030B	8260B SIM	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	8330	8330A	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	Gen Prep	300.0	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	Gen Prep	314.0	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	Gen Prep	7199	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	Gen Prep	8015B	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	Gen Prep	8015M	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	METHOD	7470A	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	METHOD	8315A	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	METHOD	9012B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3050B	6010B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3050B	6020	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3060A	7199	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3546	1625C	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3550B	8015B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3550B	8015M	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3550B	8082	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3550B	8270C	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	5035	8015M	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	8330	8330A	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	300.0	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	314.0	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	7471A	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	8015B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	8015M	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	8315A	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	9012B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5DUP	P371361D271346A	DUP	METHOD	9012B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5MS	P371361R271347A	MS	METHOD	9012B	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3050B	6010B	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3050B	6020	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3060A	7199	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3550B	8082	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3550B	8270C	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3550B	8270C SIM	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	METHOD	300.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	METHOD	314.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	METHOD	7471A	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3050B	6010B	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3050B	6020	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3060A	7199	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3550B	8082	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3550B	8270C	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3550B	8270C SIM	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	METHOD	300.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	METHOD	314.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	METHOD	7471A	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	3050B	6010B	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	3050B	6020	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	3060A	7199	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	METHOD	300.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	METHOD	314.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	METHOD	7471A	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3050B	6010B	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3050B	6020	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3060A	7199	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3550B	8082	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3550B	8270C	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3550B	8270C SIM	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	METHOD	300.0	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	METHOD	314.0	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	METHOD	7471A	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3050B	6010B	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3050B	6020	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3060A	7199	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3550B	8082	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3550B	8270C	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3550B	8270C SIM	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	METHOD	300.0	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	METHOD	6850	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: DUP24-SA5DN-QC-080911 **Collected: 8/9/2011 3:28:00 PM** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.6		0.91	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-009-SA5DN-SB-4.0-5.0 **Collected: 8/9/2011 3:25:00 PM** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.7		0.90	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-009-SA5DN-SB-9.0-10.0 **Collected: 8/9/2011 4:15:00 PM** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.4		0.92	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-011-SA5DN-SB-4.0-5.0 **Collected: 8/9/2011 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	7.9		0.92	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-012-SA5DN-SB-4.0-5.0 **Collected: 8/9/2011 8:50:00 AM** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.7		0.83	MDL	1.0	PQL	mg/Kg	J	Q, E

Sample ID: SL-012-SA5DN-SB-9.0-10.0 **Collected: 8/9/2011 9:30:00 AM** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.2		0.93	MDL	1.2	PQL	mg/Kg	J	Q, E
Nitrate-NO3	1.3	J	0.93	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-042-SA6-SB-2.5-3.5 **Collected: 8/9/2011 9:56:00 AM** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.2		0.86	MDL	1.1	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: DE220 **Laboratory:** LL

EDD Filename: DE220_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM
Method: 300.0 **Matrix:** SO

Sample ID: SL-044-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 8:09:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.4		0.96	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-049-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 2:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.88	U	0.88	MDL	1.1	PQL	mg/Kg	UJ	Q, E
Nitrate-NO3	1.5	J	0.88	MDL	1.7	PQL	mg/Kg	J	Z

Method Category: METALS
Method: 6010B **Matrix:** AQ

Sample ID: EB-SA6-SB-080911 *Collected:* 8/9/2011 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
BORON	0.0080	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
STRONTIUM	0.00053	J	0.00022	MDL	0.0050	PQL	mg/L	U	B

Method Category: METALS
Method: 6010B **Matrix:** SO

Sample ID: DUP24-SA5DN-QC-080911 *Collected:* 8/9/2011 3:28:00 PM *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.03	J	0.400	MDL	5.56	PQL	mg/Kg	U	B, F
MANGANESE	166		0.0400	MDL	0.556	PQL	mg/Kg	J	Q, E
PHOSPHORUS	184		0.389	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	2270		12.6	MDL	55.6	PQL	mg/Kg	J	Q
SODIUM	102	J	6.61	MDL	111	PQL	mg/Kg	J	Z
TIN	2.56	J	0.356	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	3.12	J	0.511	MDL	5.56	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA5DN-SB-4.0-5.0 *Collected:* 8/9/2011 3:25:00 PM *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.91	J	0.384	MDL	5.33	PQL	mg/Kg	U	B, F

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-009-SA5DN-SB-4.0-5.0** ***Collected:*** **8/9/2011 3:25:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	137		0.0384	MDL	0.533	PQL	mg/Kg	J	Q, E
PHOSPHORUS	178		0.373	MDL	10.7	PQL	mg/Kg	J	Q
POTASSIUM	2190		12.0	MDL	53.3	PQL	mg/Kg	J	Q
SODIUM	95.4	J	6.34	MDL	107	PQL	mg/Kg	J	Z
TIN	2.65	J	0.341	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	3.05	J	0.490	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: **SL-009-SA5DN-SB-9.0-10.0** ***Collected:*** **8/9/2011 4:15:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	386		0.0409	MDL	0.569	PQL	mg/Kg	J	Q, E
PHOSPHORUS	398		0.398	MDL	11.4	PQL	mg/Kg	J	Q
POTASSIUM	3480		12.9	MDL	56.9	PQL	mg/Kg	J	Q
TIN	2.62	J	0.364	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	4.99	J	0.523	MDL	5.69	PQL	mg/Kg	J	Z

Sample ID: **SL-011-SA5DN-SB-4.0-5.0** ***Collected:*** **8/9/2011 11:40:00** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.85	J	0.397	MDL	5.51	PQL	mg/Kg	U	B, F
MANGANESE	479		0.0397	MDL	0.551	PQL	mg/Kg	J	Q, E
PHOSPHORUS	253		0.386	MDL	11.0	PQL	mg/Kg	J	Q
POTASSIUM	2220		12.4	MDL	55.1	PQL	mg/Kg	J	Q
TIN	2.64	J	0.353	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	3.07	J	0.507	MDL	5.51	PQL	mg/Kg	J	Z

Sample ID: **SL-012-SA5DN-SB-4.0-5.0** ***Collected:*** **8/9/2011 8:50:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.79	J	0.370	MDL	5.14	PQL	mg/Kg	U	B, F
MANGANESE	177		0.0370	MDL	0.514	PQL	mg/Kg	J	Q, E
PHOSPHORUS	1570		0.360	MDL	10.3	PQL	mg/Kg	J	Q
POTASSIUM	2750		11.6	MDL	51.4	PQL	mg/Kg	J	Q
TIN	1.46	J	0.329	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

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-012-SA5DN-SB-9.0-10.0** ***Collected:*** **8/9/2011 9:30:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.59	J	0.410	MDL	5.70	PQL	mg/Kg	J	Z
MANGANESE	290		0.0410	MDL	0.570	PQL	mg/Kg	J	Q, E
PHOSPHORUS	369		0.399	MDL	11.4	PQL	mg/Kg	J	Q
POTASSIUM	2920		12.9	MDL	57.0	PQL	mg/Kg	J	Q
TIN	2.67	J	0.365	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	3.92	J	0.524	MDL	5.70	PQL	mg/Kg	J	Z

Sample ID: **SL-042-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 9:56:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.86	J	0.383	MDL	5.32	PQL	mg/Kg	U	B, F
MANGANESE	352		0.0383	MDL	0.532	PQL	mg/Kg	J	Q, E
PHOSPHORUS	369		0.373	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	2940		12.0	MDL	53.2	PQL	mg/Kg	J	Q
TIN	2.37	J	0.341	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.54	J	0.490	MDL	5.32	PQL	mg/Kg	J	Z

Sample ID: **SL-044-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 8:09:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.14	J	0.419	MDL	5.81	PQL	mg/Kg	U	B, F
MANGANESE	301		0.0419	MDL	0.581	PQL	mg/Kg	J	Q, E
PHOSPHORUS	340		0.407	MDL	11.6	PQL	mg/Kg	J	Q
POTASSIUM	2920		13.1	MDL	58.1	PQL	mg/Kg	J	Q
TIN	2.75	J	0.372	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	1.87	J	0.535	MDL	5.81	PQL	mg/Kg	J	Z

Sample ID: **SL-049-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 2:15:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.80	J	0.379	MDL	5.27	PQL	mg/Kg	U	B, F
MANGANESE	176		0.0379	MDL	0.527	PQL	mg/Kg	J	Q, E
PHOSPHORUS	264		0.369	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	1770		11.9	MDL	52.7	PQL	mg/Kg	J	Q
SODIUM	90.3	J	6.27	MDL	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

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS
Method: 6010B **Matrix: SO**

Sample ID: SL-049-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 2:15:00 PM *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.97	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.30	J	0.485	MDL	5.27	PQL	mg/Kg	J	Z

Method Category: METALS
Method: 6020 **Matrix: AQ**

Sample ID: EB-SA6-SB-080911 *Collected:* 8/9/2011 1:00:00 PM *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.000083	J	0.000080	MDL	0.0010	PQL	mg/L	J	Z

Method Category: METALS
Method: 6020 **Matrix: SO**

Sample ID: DUP24-SA5DN-QC-080911 *Collected:* 8/9/2011 3:28:00 PM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0638	U	0.0638	MDL	0.440	PQL	mg/Kg	UJ	E

Sample ID: DUP24-SA5DN-QC-080911 *Collected:* 8/9/2011 3:28:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.190	J	0.0814	MDL	0.220	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.39		0.0880	MDL	0.440	PQL	mg/Kg	J	Q
CADMIUM	0.0779	J	0.0484	MDL	0.110	PQL	mg/Kg	J	Z
CHROMIUM	20.9		0.132	MDL	0.440	PQL	mg/Kg	J	E, A
COBALT	5.43		0.0220	MDL	0.110	PQL	mg/Kg	J	E, FD
COPPER	10.7		0.0880	MDL	0.440	PQL	mg/Kg	J	E
LEAD	7.02		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, Q
NICKEL	13.1		0.110	MDL	0.440	PQL	mg/Kg	J	Q, A
SILVER	0.0572	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	41.6		0.0242	MDL	0.110	PQL	mg/Kg	J	E, A
ZINC	47.3		0.616	MDL	3.30	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: DE220 **Laboratory:** LL

EDD Filename: DE220_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-009-SA5DN-SB-4.0-5.0 ***Collected:*** 8/9/2011 3:25:00 PM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0618	U	0.0618	MDL	0.426	PQL	mg/Kg	UJ	E

Sample ID: SL-009-SA5DN-SB-4.0-5.0 ***Collected:*** 8/9/2011 3:25:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.236		0.0789	MDL	0.213	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.33		0.0853	MDL	0.426	PQL	mg/Kg	J	Q
CHROMIUM	15.6		0.128	MDL	0.426	PQL	mg/Kg	J	E, A
COBALT	11.9		0.0213	MDL	0.107	PQL	mg/Kg	J	E, FD
COPPER	8.73		0.0853	MDL	0.426	PQL	mg/Kg	J	E
LEAD	7.94		0.0109	MDL	0.213	PQL	mg/Kg	J	Q, Q
NICKEL	13.0		0.107	MDL	0.426	PQL	mg/Kg	J	Q, A
SILVER	0.0481	J	0.0151	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	34.5		0.0235	MDL	0.107	PQL	mg/Kg	J	E, A
ZINC	38.7		0.597	MDL	3.20	PQL	mg/Kg	J	Q, E

Sample ID: SL-009-SA5DN-SB-9.0-10.0 ***Collected:*** 8/9/2011 4:15:00 PM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.107	J	0.0666	MDL	0.459	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-009-SA5DN-SB-9.0-10.0 ***Collected:*** 8/9/2011 4:15:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.853		0.0850	MDL	0.230	PQL	mg/Kg	J	Q
ARSENIC	12.1		0.0919	MDL	0.459	PQL	mg/Kg	J	Q
CHROMIUM	35.3		0.138	MDL	0.459	PQL	mg/Kg	J	E, A
COBALT	14.5		0.0230	MDL	0.115	PQL	mg/Kg	J	E
COPPER	20.2		0.0919	MDL	0.459	PQL	mg/Kg	J	E
LEAD	14.6		0.0117	MDL	0.230	PQL	mg/Kg	J	Q, Q
NICKEL	28.5		0.115	MDL	0.459	PQL	mg/Kg	J	Q, A
SILVER	0.0668	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z
VANADIUM	76.9		0.0253	MDL	0.115	PQL	mg/Kg	J	E, A
ZINC	80.8		0.643	MDL	3.45	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: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-011-SA5DN-SB-4.0-5.0** ***Collected:*** **8/9/2011 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	0.0639	U	0.0639	MDL	0.441	PQL	mg/Kg	UJ	E

Sample ID: **SL-011-SA5DN-SB-4.0-5.0** ***Collected:*** **8/9/2011 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	0.287		0.0815	MDL	0.220	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.19		0.0881	MDL	0.441	PQL	mg/Kg	J	Q
CHROMIUM	24.5		0.132	MDL	0.441	PQL	mg/Kg	J	E, A
COBALT	8.43		0.0220	MDL	0.110	PQL	mg/Kg	J	E
COPPER	12.7		0.0881	MDL	0.441	PQL	mg/Kg	J	E
LEAD	8.23		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, Q
NICKEL	17.6		0.110	MDL	0.441	PQL	mg/Kg	J	Q, A
SILVER	0.0419	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	49.1		0.0242	MDL	0.110	PQL	mg/Kg	J	E, A
ZINC	49.8		0.617	MDL	3.30	PQL	mg/Kg	J	Q, E

Sample ID: **SL-012-SA5DN-SB-4.0-5.0** ***Collected:*** **8/9/2011 8:50:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.129	J	0.0596	MDL	0.411	PQL	mg/Kg	J	Z, Q, E

Sample ID: **SL-012-SA5DN-SB-4.0-5.0** ***Collected:*** **8/9/2011 8:50:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0760	U	0.0760	MDL	0.206	PQL	mg/Kg	UJ	Q
ARSENIC	0.944		0.0822	MDL	0.411	PQL	mg/Kg	J	Q
CADMIUM	0.0708	J	0.0452	MDL	0.103	PQL	mg/Kg	J	Z
CHROMIUM	23.2		0.123	MDL	0.411	PQL	mg/Kg	J	E, A
COBALT	14.5		0.0206	MDL	0.103	PQL	mg/Kg	J	E
COPPER	19.2		0.0822	MDL	0.411	PQL	mg/Kg	J	E
LEAD	1.54		0.0105	MDL	0.206	PQL	mg/Kg	J	Q, Q
NICKEL	29.8		0.103	MDL	0.411	PQL	mg/Kg	J	Q, A
THALLIUM	0.0642	J	0.0308	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	49.0		0.0226	MDL	0.103	PQL	mg/Kg	J	E, A
ZINC	31.7		0.575	MDL	3.08	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: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-012-SA5DN-SB-9.0-10.0** ***Collected:*** **8/9/2011 9:30:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0668	U	0.0668	MDL	0.461	PQL	mg/Kg	UJ	E

Sample ID: **SL-012-SA5DN-SB-9.0-10.0** ***Collected:*** **8/9/2011 9:30:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.246		0.0852	MDL	0.230	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.43		0.0921	MDL	0.461	PQL	mg/Kg	J	Q
CHROMIUM	30.0		0.138	MDL	0.461	PQL	mg/Kg	J	E, A
COBALT	14.3		0.0230	MDL	0.115	PQL	mg/Kg	J	E
COPPER	16.2		0.0921	MDL	0.461	PQL	mg/Kg	J	E
LEAD	9.92		0.0117	MDL	0.230	PQL	mg/Kg	J	Q, Q
NICKEL	23.6		0.115	MDL	0.461	PQL	mg/Kg	J	Q, A
SILVER	0.0868	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z
VANADIUM	54.3		0.0253	MDL	0.115	PQL	mg/Kg	J	E, A
ZINC	67.9		0.645	MDL	3.45	PQL	mg/Kg	J	Q, E

Sample ID: **SL-042-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 9:56:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.143	J	0.0617	MDL	0.426	PQL	mg/Kg	J	Z, Q, E

Sample ID: **SL-042-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 9:56:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0926	J	0.0788	MDL	0.213	PQL	mg/Kg	UJ	Q, B
ARSENIC	2.81		0.0852	MDL	0.426	PQL	mg/Kg	J	Q
CHROMIUM	13.2		0.128	MDL	0.426	PQL	mg/Kg	J	E, A
COBALT	4.48		0.0213	MDL	0.106	PQL	mg/Kg	J	E
COPPER	6.65		0.0852	MDL	0.426	PQL	mg/Kg	J	E
LEAD	4.24		0.0109	MDL	0.213	PQL	mg/Kg	J	Q, Q
NICKEL	8.69		0.106	MDL	0.426	PQL	mg/Kg	J	Q, A
SILVER	0.0434	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	25.1		0.0234	MDL	0.106	PQL	mg/Kg	J	E, A
ZINC	48.2		0.596	MDL	3.19	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: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-044-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 8:09:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.233	J	0.0688	MDL	0.474	PQL	mg/Kg	J	Z, Q, E

Sample ID: **SL-044-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 8:09:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.145	J	0.0878	MDL	0.237	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.40		0.0949	MDL	0.474	PQL	mg/Kg	J	Q
CADMIUM	0.117	J	0.0522	MDL	0.119	PQL	mg/Kg	J	Z
CHROMIUM	17.4		0.142	MDL	0.474	PQL	mg/Kg	J	E, A
COBALT	6.37		0.0237	MDL	0.119	PQL	mg/Kg	J	E
COPPER	8.38		0.0949	MDL	0.474	PQL	mg/Kg	J	E
LEAD	7.07		0.0121	MDL	0.237	PQL	mg/Kg	J	Q, Q
NICKEL	12.1		0.119	MDL	0.474	PQL	mg/Kg	J	Q, A
SILVER	0.0587	J	0.0168	MDL	0.119	PQL	mg/Kg	J	Z
VANADIUM	36.3		0.0261	MDL	0.119	PQL	mg/Kg	J	E, A
ZINC	72.6		0.664	MDL	3.56	PQL	mg/Kg	J	Q, E

Sample ID: **SL-049-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 2:15:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.212	J	0.0624	MDL	0.430	PQL	mg/Kg	J	Z, Q, E

Sample ID: **SL-049-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 2:15:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.174	J	0.0796	MDL	0.215	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.94		0.0860	MDL	0.430	PQL	mg/Kg	J	Q
CHROMIUM	17.0		0.129	MDL	0.430	PQL	mg/Kg	J	E, A
COBALT	4.69		0.0215	MDL	0.108	PQL	mg/Kg	J	E
COPPER	5.54		0.0860	MDL	0.430	PQL	mg/Kg	J	E
LEAD	6.88		0.0110	MDL	0.215	PQL	mg/Kg	J	Q, Q
NICKEL	9.81		0.108	MDL	0.430	PQL	mg/Kg	J	Q, A
SILVER	0.0405	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	40.0		0.0237	MDL	0.108	PQL	mg/Kg	J	E, A
ZINC	43.2		0.602	MDL	3.23	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: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS
Method: 6020 **Matrix: SO**

Method Category: METALS
Method: 7199 **Matrix: SO**

Sample ID: **SL-011-SA5DN-SB-4.0-5.0** ***Collected:*** **8/9/2011 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	0.28	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: **SL-042-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 9:56:00 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	0.24	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: **SL-044-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 8:09:00 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	0.31	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: **SL-049-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 2:15:00 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	0.30	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

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

Sample ID: **DUP24-SA5DN-QC-080911** ***Collected:*** **8/9/2011 3:28:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0188	J	0.0079	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: **SL-009-SA5DN-SB-4.0-5.0** ***Collected:*** **8/9/2011 3:25:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0232	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

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory:** LL

EDD Filename: DE220_v2 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-012-SA5DN-SB-4.0-5.0 *Collected:* 8/9/2011 8:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0123	J	0.0070	MDL	0.100	PQL	mg/Kg	J	Z

Sample ID: SL-012-SA5DN-SB-9.0-10.0 *Collected:* 8/9/2011 9:30:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0211	J	0.0076	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 2:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0259	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

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

Sample ID: EB-SA6-SB-080911 *Collected:* 8/9/2011 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	3.68		0.511	MDL	1.02	PQL	ng/L	UJ	B, S

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

Sample ID: SL-012-SA5DN-SB-9.0-10.0 *Collected:* 8/9/2011 9:30:00 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)	0.68	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-042-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 9:56:00 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)	0.93	J	0.43	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

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: **SL-049-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 2:15:00 PM** ***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)	0.45	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: AQ**

Sample ID: **EB-SA6-SB-080911** ***Collected:*** **8/9/2011 1:00:00 PM** ***Analysis Type:*** **RES-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	R	L

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: **DUP24-SA5DN-QC-080911** ***Collected:*** **8/9/2011 3:28:00 PM** ***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
BENZOIC ACID	190	U	190	MDL	560	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: **SL-009-SA5DN-SB-4.0-5.0** ***Collected:*** **8/9/2011 3:25:00 PM** ***Analysis Type:*** **RES-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	370	U	370	MDL	1100	PQL	ug/Kg	R	Q
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	R	L
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q, L

Sample ID: **SL-009-SA5DN-SB-9.0-10.0** ***Collected:*** **8/9/2011 4:15:00 PM** ***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	580	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	580	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

* 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: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: **SL-011-SA5DN-SB-4.0-5.0** ***Collected:*** **8/9/2011 11:40:00** ***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	190	U	190	MDL	560	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	560	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: **SL-012-SA5DN-SB-4.0-5.0** ***Collected:*** **8/9/2011 8:50:00 AM** ***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
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L

Sample ID: **SL-012-SA5DN-SB-9.0-10.0** ***Collected:*** **8/9/2011 9:30:00 AM** ***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	580	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	580	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: **SL-042-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 9:56:00 AM** ***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
BENZOIC ACID	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: **SL-044-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 8:09:00 AM** ***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
BENZOIC ACID	200	U	200	MDL	590	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	20	U	20	MDL	200	PQL	ug/Kg	UJ	L

* 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: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-049-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 2:15:00 PM *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
BENZOIC ACID	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Method Category: SVOA

Method: 8270C SIM **Matrix: AQ**

Sample ID: EB-SA6-SB-080911 *Collected:* 8/9/2011 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	0.094	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Butylbenzylphthalate	0.15	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Diethylphthalate	0.065	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.16	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-octylphthalate	0.14	J	0.051	MDL	1.0	PQL	ug/L	J	Z
NAPHTHALENE	0.048	J	0.030	MDL	0.051	PQL	ug/L	J	Z

Method Category: SVOA

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

Sample ID: DUP24-SA5DN-QC-080911 *Collected:* 8/9/2011 3:28:00 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	21		6.7	MDL	20	PQL	ug/Kg	J	FD
Di-n-octylphthalate	52		6.7	MDL	20	PQL	ug/Kg	J	FD

Sample ID: SL-009-SA5DN-SB-4.0-5.0 *Collected:* 8/9/2011 3:25:00 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
ANTHRACENE	0.37	U	0.37	MDL	1.8	PQL	ug/Kg	UJ	Q
BIS(2-ETHYLHEXYL)PHTHALATE	50		6.7	MDL	20	PQL	ug/Kg	J	Q, FD
Di-n-octylphthalate	6.7	U	6.7	MDL	20	PQL	ug/Kg	UJ	FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-011-SA5DN-SB-4.0-5.0 *Collected:* 8/9/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA5DN-SB-4.0-5.0 *Collected:* 8/9/2011 8:50:00 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
Di-n-octylphthalate	11	J	6.2	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-042-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 9:56:00 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
CHRYSENE	0.69	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-049-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 2:15:00 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
BIS(2-ETHYLHEXYL)PHTHALATE	8.5	J	6.5	MDL	19	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8315A **Matrix: SO**

Sample ID: SL-012-SA5DN-SB-4.0-5.0 *Collected:* 8/9/2011 8:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	660	J	630	MDL	1600	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8260B **Matrix: AQ**

Sample ID: EB-SA6-SB-080911 *Collected:* 8/9/2011 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
ACETONE	13	J	6	MDL	20	PQL	ug/L	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: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_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

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE220

Method Blank Outlier Report

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWE22B261554	8/16/2011 3:54:00 PM	N-NITROSODIMETHYLAMINE	1.64 ng/L	EB-SA6-SB-080911

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-080911(RES)	N-NITROSODIMETHYLAMINE	3.68 ng/L	3.68U ng/L

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22448AB221736	8/15/2011 5:36:00 PM	BORON CALCIUM STRONTIUM	0.0067 mg/L 0.0748 mg/L 0.00056 mg/L	EB-SA6-SB-080911

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-080911(RES)	BORON	0.0080 mg/L	0.0080U mg/L
EB-SA6-SB-080911(RES)	STRONTIUM	0.00053 mg/L	0.00053U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22408BB220447	8/16/2011 4:47:00 AM	ALUMINUM BORON CALCIUM MAGNESIUM PHOSPHORUS STRONTIUM TIN	7.29 mg/Kg 0.823 mg/Kg 16.5 mg/Kg 0.482 mg/Kg 1.19 mg/Kg 0.0910 mg/Kg 1.66 mg/Kg	DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5

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
DUP24-SA5DN-QC-080911(REA)	BORON	3.03 mg/Kg	3.03U mg/Kg
DUP24-SA5DN-QC-080911(REA)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-009-SA5DN-SB-4.0-5.0(REA)	BORON	2.91 mg/Kg	2.91U mg/Kg
SL-009-SA5DN-SB-4.0-5.0(REA)	TIN	2.65 mg/Kg	2.65U mg/Kg
SL-009-SA5DN-SB-9.0-10.0(REA)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-011-SA5DN-SB-4.0-5.0(REA)	BORON	3.85 mg/Kg	3.85U mg/Kg
SL-011-SA5DN-SB-4.0-5.0(REA)	TIN	2.64 mg/Kg	2.64U mg/Kg
SL-012-SA5DN-SB-4.0-5.0(REA)	BORON	1.79 mg/Kg	1.79U mg/Kg
SL-012-SA5DN-SB-4.0-5.0(REA)	TIN	1.46 mg/Kg	1.46U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-012-SA5DN-SB-9.0-10.0(REA)	TIN	2.67 mg/Kg	2.67U mg/Kg
SL-042-SA6-SB-2.5-3.5(REA)	BORON	3.86 mg/Kg	3.86U mg/Kg
SL-042-SA6-SB-2.5-3.5(REA)	TIN	2.37 mg/Kg	2.37U mg/Kg
SL-044-SA6-SB-2.5-3.5(REA)	BORON	3.14 mg/Kg	3.14U mg/Kg
SL-044-SA6-SB-2.5-3.5(REA)	TIN	2.75 mg/Kg	2.75U mg/Kg
SL-049-SA6-SB-2.5-3.5(REA)	BORON	2.80 mg/Kg	2.80U mg/Kg
SL-049-SA6-SB-2.5-3.5(REA)	TIN	2.97 mg/Kg	2.97U mg/Kg

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA6-SB-080911(RES)	8/9/2011 1:00:00 PM	BORON STRONTIUM	0.008 mg/L 0.00053 mg/L	DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5

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
DUP24-SA5DN-QC-080911(REA)	BORON	3.03 mg/Kg	3.03U mg/Kg
SL-009-SA5DN-SB-4.0-5.0(REA)	BORON	2.91 mg/Kg	2.91U mg/Kg
SL-011-SA5DN-SB-4.0-5.0(REA)	BORON	3.85 mg/Kg	3.85U mg/Kg
SL-012-SA5DN-SB-4.0-5.0(REA)	BORON	1.79 mg/Kg	1.79U mg/Kg
SL-042-SA6-SB-2.5-3.5(REA)	BORON	3.86 mg/Kg	3.86U mg/Kg
SL-044-SA6-SB-2.5-3.5(REA)	BORON	3.14 mg/Kg	3.14U mg/Kg
SL-049-SA6-SB-2.5-3.5(REA)	BORON	2.80 mg/Kg	2.80U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA5DN-SB-4.0-5.0MS **SL-009-SA5DN-SB-4.0-5.0MSD** (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	LEAD	4	33	75.00-125.00	-	LEAD	J (all detects) R (all non-detects) post spike = 69%
SL-009-SA5DN-SB-4.0-5.0MS **SL-009-SA5DN-SB-4.0-5.0MSD** (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	ANTIMONY ARSENIC NICKEL ZINC	45 71 72 71	56 - - -	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ANTIMONY ARSENIC NICKEL ZINC	J(all detects) UJ(all non-detects)
SL-009-SA5DN-SB-4.0-5.0MSD (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	SELENIUM	-	128	75.00-125.00	29 (20.00)	SELENIUM	J(all detects) UJ(all non-detects)
SL-009-SA5DN-SB-4.0-5.0MS **SL-009-SA5DN-SB-4.0-5.0MSD** (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	BARIUM	-114	-101	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA5DN-SB-4.0-5.0MS **SL-009-SA5DN-SB-4.0-5.0MSD** (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	ALUMINUM IRON MAGNESIUM PHOSPHORUS POTASSIUM TITANIUM	2060 627 243 126 - 317	2380 2001 275 135 127 287	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 PHOSPHORUS POTASSIUM TITANIUM	J(all detects) Al, Fe, Mg, Ti, No Qual, >4x
SL-009-SA5DN-SB-4.0-5.0MS **SL-009-SA5DN-SB-4.0-5.0MSD** (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	MANGANESE	161	306	75.00-125.00	30 (20.00)	MANGANESE	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-009-SA5DN-SB-4.0-5.0MSD (SL-009-SA5DN-SB-4.0-5.0)	4,6-DINITRO-2-METHYLPHENOL PENTACHLOROPHENOL	- -	- -	11.00-126.00 28.00-127.00	60 (30.00) 35 (30.00)	4,6-DINITRO-2-METHYLPHEN PENTACHLOROPHENOL	J(all detects)
SL-009-SA5DN-SB-4.0-5.0MS **SL-009-SA5DN-SB-4.0-5.0MSD** (SL-009-SA5DN-SB-4.0-5.0)	2,4-DINITROPHENOL BENZOIC ACID	0 0	- -	20.00-143.00 10.00-173.00	200 (30.00) 200 (30.00)	2,4-DINITROPHENOL BENZOIC ACID	J(all detects) R(all non-detects)
SL-009-SA5DN-SB-4.0-5.0MS **SL-009-SA5DN-SB-4.0-5.0MSD** (SL-009-SA5DN-SB-4.0-5.0)	BIS(2-CHLOROETHOXY)METHA	73	73	75.00-104.00	-	BIS(2-CHLOROETHOXY)METH	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-009-SA5DN-SB-4.0-5.0MS **SL-009-SA5DN-SB-4.0-5.0MSD** (SL-009-SA5DN-SB-4.0-5.0)	ACENAPHTHENE	107	106	63.00-105.00	-	ACENAPHTHENE	J(all detects)
SL-009-SA5DN-SB-4.0-5.0MS **SL-009-SA5DN-SB-4.0-5.0MSD** (SL-009-SA5DN-SB-4.0-5.0)	ANTHRACENE BIS(2-ETHYLHEXYL)PHTHALAT	72 23	- 13	73.00-115.00 39.00-167.00	- -	ANTHRACENE BIS(2-ETHYLHEXYL)PHTHALA	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **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-009-SA5DN-SB-4.0-5.0MS (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	FLUORIDE	64	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-009-SA5DN-SB-4.0-5.0DUP (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	FLUORIDE	26	20.00	J (all detects) UJ (all non-detects)
	Nitrate-NO3	35	20.00	Nitrate, No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-009-SA5DN-SB-4.0-5.0DUP (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	CADMIUM	43	20.00	J(all detects) UJ(all non-detects)
	CHROMIUM	35	20.00	
	COBALT	64	20.00	
	COPPER	23	20.00	
	MOLYBDENUM	21	20.00	
	THALLIUM	23	20.00	
	VANADIUM	23	20.00	
	ZINC	23	20.00	Cd, Mo, Tl, No Qual, OK by Difference

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-009-SA5DN-SB-4.0-5.0DUP (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	MERCURY	50	20.00	No Qual, OK by Difference

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_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
P12273AQ240057A	2,4,6-TRINITROTOLUENE	110	-	76.00-109.00	-	2,4,6-TRINITROTOLUENE	
P12273AY240139A	3-NITROTOLUENE	110	110	69.00-107.00	-	3-NITROTOLUENE	J (all detects)
(EB-SA6-SB-080911)	PETN	138	138	80.00-120.00	-	PETN	

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P2WGLCSQ260627	4-BROMOPHENYL-PHENYLETH	119	116	75.00-115.00	-	4-BROMOPHENYL-PHENYLET	
P2WGLCSY260651	PENTACHLOROPHENOL	-	115	53.00-110.00	-	PENTACHLOROPHENOL	J(all detects)
(EB-SA6-SB-080911)							
P2WGLCSQ260627	BENZOIC ACID	0	-	10.00-69.00	200 (30.00)	BENZOIC ACID	J(all detects)
P2WGLCSY260651							R(all non-detects)
(EB-SA6-SB-080911)							

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22408BQ220451	ALUMINUM	141	-	80.00-120.00	-	ALUMINUM	
(DUP24-SA5DN-QC-080911	IRON	135	-	80.00-120.00	-	IRON	
SL-009-SA5DN-SB-4.0-5.0	TITANIUM	182	-	80.00-120.00	-	TITANIUM	
SL-009-SA5DN-SB-9.0-10.0							
SL-011-SA5DN-SB-4.0-5.0							
SL-012-SA5DN-SB-4.0-5.0							No Qual,
SL-012-SA5DN-SB-9.0-10.0							SRM within QC
SL-042-SA6-SB-2.5-3.5							Limits
SL-044-SA6-SB-2.5-3.5							
SL-049-SA6-SB-2.5-3.5)							

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8LELCSQ261858	4,6-DINITRO-2-METHYLPHENOL	31	-	46.00-120.00	-	4,6-DINITRO-2-METHYLPHEN	
(DUP24-SA5DN-QC-080911	BENZOIC ACID	36	-	62.00-113.00	-	BENZOIC ACID	
SL-009-SA5DN-SB-4.0-5.0	BIS(2-CHLOROETHOXY)METHA	67	-	70.00-118.00	-	BIS(2-CHLOROETHOXY)METH	
SL-009-SA5DN-SB-9.0-10.0							
SL-011-SA5DN-SB-4.0-5.0							J(all detects)
SL-012-SA5DN-SB-4.0-5.0							UJ(all non-detects)
SL-012-SA5DN-SB-9.0-10.0							
SL-042-SA6-SB-2.5-3.5							
SL-044-SA6-SB-2.5-3.5							
SL-049-SA6-SB-2.5-3.5)							

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

Surrogate Outlier Report

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-080911	N-Nitrosodimethylamine-d6	222	50.00-150.00	All Target Analytes	J (all detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-009-SA5DN-SB-4.0-5.0	DECACHLOROBIPHENYL	133	45.00-120.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
MOISTURE	9.8	10.9	11		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
FLUORIDE	5.7	6.6	15	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
ALUMINUM	16600	17900	8	50.00	No Qualifiers Applied
BORON	2.91	3.03	4	50.00	
CALCIUM	2500	2510	0	50.00	
IRON	18700	19000	2	50.00	
LITHIUM	17.7	18.5	4	50.00	
MAGNESIUM	3270	3500	7	50.00	
MANGANESE	137	166	19	50.00	
PHOSPHORUS	178	184	3	50.00	
POTASSIUM	2190	2270	4	50.00	
SODIUM	95.4	102	7	50.00	
STRONTIUM	17.0	18.8	10	50.00	
TIN	2.65	2.56	3	50.00	
TITANIUM	979	1040	6	50.00	
Zirconium	3.05	3.12	2	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
ANTIMONY	0.236	0.190	22	50.00	No Qualifiers Applied
ARSENIC	5.33	6.39	18	50.00	
BARIUM	96.4	98.5	2	50.00	
BERYLLIUM	0.697	0.804	14	50.00	
CADMIUM	0.112	0.0779	36	50.00	
CHROMIUM	15.6	20.9	29	50.00	
COPPER	8.73	10.7	20	50.00	
LEAD	7.94	7.02	12	50.00	
MOLYBDENUM	0.603	0.409	38	50.00	
NICKEL	13.0	13.1	1	50.00	
SILVER	0.0481	0.0572	17	50.00	
THALLIUM	0.235	0.283	19	50.00	
VANADIUM	34.5	41.6	19	50.00	
ZINC	38.7	47.3	20	50.00	
COBALT	11.9	5.43	75	50.00	J(all detects)

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
MERCURY	0.0232	0.0188	21	50.00	No Qualifiers Applied

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
BIS(2-ETHYLHEXYL)PHTHALATE	50	21	82	50.00	J(all detects)
Di-n-octylphthalate	20 U	52	200	50.00	UJ(all non-detects)

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
PH	7.93	8.11	2	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080911	BORON	J	0.0080	0.0500	PQL	mg/L	J (all detects)
	STRONTIUM	J	0.00053	0.0050	PQL	mg/L	

Method: 6020
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080911	LEAD	J	0.000083	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-080911	ACETONE	J	13	20	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-080911	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.094	1.0	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.15	1.0	PQL	ug/L	
	Diethylphthalate	J	0.065	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.16	1.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.14	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.048	0.051	PQL	ug/L	

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5DN-SB-9.0-10.0	Nitrate-NO3	J	1.3	1.7	PQL	mg/Kg	J (all detects)
SL-049-SA6-SB-2.5-3.5	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
DUP24-SA5DN-QC-080911	BORON	J	3.03	5.56	PQL	mg/Kg	J (all detects)
	SODIUM	J	102	111	PQL	mg/Kg	
	TIN	J	2.56	11.1	PQL	mg/Kg	
	Zirconium	J	3.12	5.56	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA5DN-SB-4.0-5.0	BORON	J	2.91	5.33	PQL	mg/Kg	J (all detects)
	SODIUM	J	95.4	107	PQL	mg/Kg	
	TIN	J	2.65	10.7	PQL	mg/Kg	
	Zirconium	J	3.05	5.33	PQL	mg/Kg	
SL-009-SA5DN-SB-9.0-10.0	TIN	J	2.62	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.99	5.69	PQL	mg/Kg	
SL-011-SA5DN-SB-4.0-5.0	BORON	J	3.85	5.51	PQL	mg/Kg	J (all detects)
	TIN	J	2.64	11.0	PQL	mg/Kg	
	Zirconium	J	3.07	5.51	PQL	mg/Kg	
SL-012-SA5DN-SB-4.0-5.0	BORON	J	1.79	5.14	PQL	mg/Kg	J (all detects)
	TIN	J	1.46	10.3	PQL	mg/Kg	
SL-012-SA5DN-SB-9.0-10.0	BORON	J	4.59	5.70	PQL	mg/Kg	J (all detects)
	TIN	J	2.67	11.4	PQL	mg/Kg	
	Zirconium	J	3.92	5.70	PQL	mg/Kg	
SL-042-SA6-SB-2.5-3.5	BORON	J	3.86	5.32	PQL	mg/Kg	J (all detects)
	TIN	J	2.37	10.6	PQL	mg/Kg	
	Zirconium	J	2.54	5.32	PQL	mg/Kg	
SL-044-SA6-SB-2.5-3.5	BORON	J	3.14	5.81	PQL	mg/Kg	J (all detects)
	TIN	J	2.75	11.6	PQL	mg/Kg	
	Zirconium	J	1.87	5.81	PQL	mg/Kg	
SL-049-SA6-SB-2.5-3.5	BORON	J	2.80	5.27	PQL	mg/Kg	J (all detects)
	SODIUM	J	90.3	105	PQL	mg/Kg	
	TIN	J	2.97	10.5	PQL	mg/Kg	
	Zirconium	J	2.30	5.27	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA5DN-QC-080911	ANTIMONY	J	0.190	0.220	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0779	0.110	PQL	mg/Kg	
	SILVER	J	0.0572	0.110	PQL	mg/Kg	
SL-009-SA5DN-SB-4.0-5.0	SILVER	J	0.0481	0.107	PQL	mg/Kg	J (all detects)
SL-009-SA5DN-SB-9.0-10.0	SELENIUM	J	0.107	0.459	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0668	0.115	PQL	mg/Kg	
SL-011-SA5DN-SB-4.0-5.0	SILVER	J	0.0419	0.110	PQL	mg/Kg	J (all detects)
SL-012-SA5DN-SB-4.0-5.0	CADMIUM	J	0.0708	0.103	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.129	0.411	PQL	mg/Kg	
	THALLIUM	J	0.0642	0.103	PQL	mg/Kg	
SL-012-SA5DN-SB-9.0-10.0	SILVER	J	0.0868	0.115	PQL	mg/Kg	J (all detects)
SL-042-SA6-SB-2.5-3.5	ANTIMONY	J	0.0926	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.143	0.426	PQL	mg/Kg	
	SILVER	J	0.0434	0.106	PQL	mg/Kg	
SL-044-SA6-SB-2.5-3.5	ANTIMONY	J	0.145	0.237	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.117	0.119	PQL	mg/Kg	
	SELENIUM	J	0.233	0.474	PQL	mg/Kg	
	SILVER	J	0.0587	0.119	PQL	mg/Kg	
SL-049-SA6-SB-2.5-3.5	ANTIMONY	J	0.174	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.212	0.430	PQL	mg/Kg	
	SILVER	J	0.0405	0.108	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.28	1.2	PQL	mg/Kg	J (all detects)
SL-042-SA6-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.24	1.1	PQL	mg/Kg	J (all detects)
SL-044-SA6-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.31	1.2	PQL	mg/Kg	J (all detects)
SL-049-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
DUP24-SA5DN-QC-080911	MERCURY	J	0.0188	0.112	PQL	mg/Kg	J (all detects)
SL-009-SA5DN-SB-4.0-5.0	MERCURY	J	0.0232	0.102	PQL	mg/Kg	J (all detects)
SL-012-SA5DN-SB-4.0-5.0	MERCURY	J	0.0123	0.100	PQL	mg/Kg	J (all detects)
SL-012-SA5DN-SB-9.0-10.0	MERCURY	J	0.0211	0.108	PQL	mg/Kg	J (all detects)
SL-049-SA6-SB-2.5-3.5	MERCURY	J	0.0259	0.102	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5DN-SB-9.0-10.0	EFH (C30-C40)	J	0.68	1.4	PQL	mg/Kg	J (all detects)
SL-042-SA6-SB-2.5-3.5	EFH (C30-C40)	J	0.93	1.3	PQL	mg/Kg	J (all detects)
SL-049-SA6-SB-2.5-3.5	EFH (C21-C30)	J	0.45	1.3	PQL	mg/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	20	PQL	ug/Kg	J (all detects)
SL-012-SA5DN-SB-4.0-5.0	Di-n-octylphthalate	J	11	19	PQL	ug/Kg	J (all detects)
SL-042-SA6-SB-2.5-3.5	CHRYSENE	J	0.69	1.8	PQL	ug/Kg	J (all detects)
SL-049-SA6-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.5	19	PQL	ug/Kg	J (all detects)

Method: 8315A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5DN-SB-4.0-5.0	FORMALDEHYDE	J	660	1600	PQL	ug/Kg	J (all detects)

LDC #: 26533I4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/7/11
SDG #: DE220 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
2nd Reviewer:

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	W	
III.	Calibration	W	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N SW	Al, Ba, Fe, Mg, Ti >4X
VII.	Duplicate Sample Analysis	N SW	Cd, Hg, Mo, Tl <5X
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Cr, Ni, V J/UJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	EB=4

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-042-SA6-SB-2.5-3.5	11	SL-009-SA5DN-SB-4.0-5.0MS	21		31	
2	SL-044-SA6-SB-2.5-3.5	12	SL-009-SA5DN-SB-4.0-5.0MSD	22		32	
3	SL-049-SA6-SB-2.5-3.5	13	SL-009-SA5DN-SB-4.0-5.0DUP	23		33	
4	EB-SA6-SB-080911	14		24		34	
5	SL-011-SA5DN-SB-4.0-5.0	15		25		35	
6	SL-012-SA5DN-SB-4.0-5.0	16		26		36	
7	SL-012-SA5DN-SB-9.0-10.0	17		27		37	
8	SL-009-SA5DN-SB-4.0-5.0	18		28		38	
9	SL-009-SA5DN-SB-9.0-10.0	19		29		39	
10	DUP24-SA5DN-QC-080911	20		30		40	

Notes:

LDC #: 26533I4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: [illegible]
2nd Reviewer: A

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: 8/9/11 Soil factor applied 100x

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

Analyte	Blank ID	Sample Identification											
	4	Action Level	1	2	3	5	6	8	10				
B	8.0	4.0	3.9	3.1	2.8	3.8	1.8	2.9	3.0				
Pb	0.083	0.0415											
Sr	0.53	0.265											

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".

LDC #: 26533I4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 200X
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	1	2	3	5	7	8	10			
Sb			0.38	0.38	0.093	0.15	0.17	0.29	0.25	0.24	0.19			
Be			0.057	0.057										

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.

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE220
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6371367BKG Matrix Spike Lab Sample ID: 6371368MS Matrix Spike Duplicate Lab Sample ID: 6371369MSD
% Solids for Sample: 90.2
Batch Id(s): P22408B, P22426A, P22211D

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		16645.2477		21213.5244		21871.1389		221.7295	219.5341	MG/KG	2060		2380		3			20	P
Antimony	121	0.2356		0.8150		0.9745		1.2916	1.3172	MG/KG	45	N	56	N	18		75 - 125	20	MS
Arsenic	75	5.3322		6.8542		7.1151		2.1527	2.1953	MG/KG	71	N	81		4		75 - 125	20	MS
Barium	137	96.4097		84.1065		85.3549		10.7636	10.9767	MG/KG	-114		-101		1			20	MS
Beryllium	9	0.6967		1.4309		1.4753		0.8611	0.8781	MG/KG	85		89		3		75 - 125	20	MS
Boron		2.9070	B	222.8038		221.0994		221.7295	219.5341	MG/KG	99		99		1		84 - 115	20	P
Cadmium	111	0.1116		1.1635		1.2783		1.0764	1.0977	MG/KG	98		106		9		75 - 125	20	MS
Calcium		2501.0745		2935.3980		2897.5566		443.4590	439.0683	MG/KG	98		90		1			20	P
Chromium	52	15.5850		26.4138		28.5394		10.7636	10.9767	MG/KG	101		118		8		75 - 125	20	MS
Cobalt	59	11.9478		57.4990		63.4673		53.8178	54.8835	MG/KG	85		94		10		75 - 125	20	MS
Copper	63	8.7285		18.7523		20.2718		10.7636	10.9767	MG/KG	93		105		8		75 - 125	20	MS
Iron		18676.3890		19371.6297		20872.4177		110.8647	109.7671	MG/KG	627		2001		7			20	P
Lead	208	7.9439		8.0834		9.0448		3.2291	3.2930	MG/KG	4	N	33	N	11		75 - 125	20	MS
Lithium		17.7106		130.5177		130.2562		110.8647	109.7671	MG/KG	102		103		0		82 - 114	20	P
Magnesium		3272.6388		3811.5344		3876.4440		221.7295	219.5341	MG/KG	243		275		2			20	P
Manganese		137.2186		226.4457		305.4049		55.4324	54.8835	MG/KG	161	N	306	N	30	*	75 - 125	20	P
Mercury		0.0232	B	0.1992		0.1927		0.1732	0.1768	MG/KG	102		96		3		65 - 135	20	CV
Molybdenum	98	0.6025		10.9422		12.2281		10.7636	10.9767	MG/KG	96		106		11		75 - 125	20	MS
Nickel	60	12.9925		20.7070		22.4583		10.7636	10.9767	MG/KG	72	N	86		8		75 - 125	20	MS
Phosphorus		177.8708		317.7506		325.7448		110.8647	109.7671	MG/KG	126	N	135	N	2		75 - 125	20	P
Potassium		2188.3656		3560.4113		3585.9026		1108.6475	1097.6707	MG/KG	124		127	N	1		75 - 125	20	P
Selenium	78	0.0618	U	2.0955		2.8056		2.1527	2.1953	MG/KG	97		128	N	29	*	75 - 125	20	MS
Silver	107	0.0481	B	10.7184		11.8614		10.7636	10.9767	MG/KG	99		108		10		75 - 125	20	MS
Sodium		95.4364	B	1159.8869		1160.3982		1108.6475	1097.6707	MG/KG	96		97		0		75 - 125	20	P
Strontium		16.9559		129.4867		129.6986		110.8647	109.7671	MG/KG	102		103		0		75 - 115	20	P
Thallium	203	0.2354		0.6906		0.7240		0.4305	0.4391	MG/KG	106		111		5		75 - 125	20	MS
Tin		2.6469	B	406.2805		401.4511		443.4590	439.0683	MG/KG	91		91		1		80 - 110	20	P
Titanium		978.9144		1329.8215		1294.4140		110.8647	109.7671	MG/KG	317		287		3			20	P
Vanadium	51	34.4534		42.9036		45.7290		10.7636	10.9767	MG/KG	79		103		6		75 - 125	20	MS
Zinc	66	38.6747		46.3049		49.9440		10.7636	10.9767	MG/KG	71	N	103		8		75 - 125	20	MS
Zirconium		3.0509	B	113.1009		112.1161		110.8647	109.7671	MG/KG	99		99		1		75 - 125	20	P

Pb post spike = 69% (O/R)

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:
N = Matrix Spike OOS, * = Duplicate OOS

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE220
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6371367BKG
% Solids for Duplicate: 90.0
Batch ID(s): P22408B, P22426A, P22211D
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6371370DUP
% Solids for Sample: 90.2

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			16645.2477		16920.8947		2		P
Antimony	121	0.2	0.2356		0.2068	B	13		MS
Arsenic	75		5.3322		6.4745		19		MS
Barium	137		96.4097		97.2727		1		MS
Beryllium	9		0.6967		0.7381		6		MS
Boron			2.9070	B	2.8836	B	1		P
Cadmium	111	0.1	0.1116		0.0717	B	44		MS
Calcium			2501.0745		2257.8304		10		P
Chromium	52		15.5850		22.1042		35	*	MS
Cobalt	59		11.9478		6.1375		64	*	MS
Copper	63		8.7285		10.9889		23	*	MS
Iron			18676.3890		17822.6264		5		P
Lead	208		7.9439		7.2882		9		MS
Lithium			17.7106		17.7118		0		P
Magnesium			3272.6388		3272.3104		0		P
Manganese			137.2186		161.8326		16		P
Mercury			0.0232	B	0.0139	B	50		CV
Molybdenum	98	0.1	0.6025		0.4876		21		MS
Nickel	60		12.9925		13.9246		7		MS
Phosphorus			177.8708		190.0100		7		P
Potassium			2188.3656		2163.4756		1		P
Selenium	78		0.0618	U	0.0643	U			MS
Silver	107		0.0481	B	0.0529	B	10		MS
Sodium			95.4364	B	94.8149	B	1		P
Strontium			16.9559		16.7971		1		P
Thallium	203	0.1	0.2354		0.2976		23		MS
Tin			2.6469	B	2.4224	B	9		P
Titanium			978.9144		993.6153		1		P
Vanadium	51		34.4534		43.4590		23	*	MS
Zinc	66		38.6747		48.8470		23	*	MS
Zirconium			3.0509	B	3.5410	B	15		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.

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

SAMPLE DELIVERY GROUP

DE221

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
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3050B	6010B	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3050B	6020	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3060A	7199	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3550B	8082	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3550B	8270C	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3550B	8270C SIM	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	METHOD	300.0	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	METHOD	314.0	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	METHOD	7471A	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3050B	6010B	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3050B	6020	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3060A	7199	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3550B	8082	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3550B	8270C	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3550B	8270C SIM	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	METHOD	300.0	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	METHOD	314.0	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	METHOD	7471A	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0DUP	P372837D270303B	DUP	METHOD	314.0	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0MS	P372837R270350B	MS	METHOD	314.0	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3050B	6010B	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3050B	6020	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3060A	7199	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3550B	8082	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3550B	8270C	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	METHOD	300.0	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	METHOD	314.0	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	METHOD	6850	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	METHOD	7471A	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0DUP	P372830D272204A	DUP	METHOD	314.0	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0MS	P372830R272227A	MS	METHOD	314.0	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3050B	6010B	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3050B	6020	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3060A	7199	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3550B	8082	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3550B	8270C	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3550B	8270C SIM	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	METHOD	300.0	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	METHOD	314.0	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	METHOD	7471A	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3050B	6010B	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3050B	6020	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3060A	7199	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3550B	8082	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3550B	8270C	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3550B	8270C SIM	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	METHOD	300.0	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	METHOD	314.0	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	METHOD	7471A	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0DU	P372826D270011A	DUP	METHOD	300.0	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0MS	P372826R260049	MS	3550B	8270C SIM	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0MS	P372826R270025A	MS	METHOD	300.0	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3050B	6010B	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3050B	6020	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3060A	7199	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3550B	8082	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3550B	8270C	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3550B	8270C SIM	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	METHOD	300.0	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	METHOD	314.0	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	METHOD	7471A	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3050B	6010B	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3050B	6020	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3060A	7199	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3550B	8082	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3550B	8270C	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3550B	8270C SIM	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	METHOD	300.0	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	METHOD	314.0	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	METHOD	7471A	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3050B	6010B	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3050B	6020	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3060A	7199	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3550B	8082	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3550B	8270C	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3550B	8270C SIM	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	METHOD	300.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	METHOD	314.0	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	METHOD	6850	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	METHOD	7471A	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0MS	P372827R241713A	MS	METHOD	6850	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3050B	6010B	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3050B	6020	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3060A	7199	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3550B	8082	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3550B	8270C	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3550B	8270C SIM	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	METHOD	300.0	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	METHOD	314.0	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	METHOD	7471A	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3050B	6010B	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3050B	6020	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3060A	7199	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3550B	8082	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3550B	8270C	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3550B	8270C SIM	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	METHOD	300.0	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	METHOD	314.0	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	METHOD	7471A	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3050B	6010B	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3050B	6020	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3060A	7199	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3550B	8082	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3550B	8270C	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3550B	8270C SIM	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	METHOD	300.0	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	METHOD	314.0	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	METHOD	7471A	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3050B	6010B	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3050B	6020	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3060A	7199	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3550B	8082	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3550B	8270C	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3550B	8270C SIM	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	METHOD	300.0	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	METHOD	314.0	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SL-007-SA5DN-SB-4.0-5.0 **Collected: 8/10/2011 9:20:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.5		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-071-SA5DN-SB-4.0-5.0 **Collected: 8/10/2011 11:19:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	10.9		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-071-SA5DN-SB-9.0-10.0 **Collected: 8/10/2011 11:57:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.5		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-072-SA5DN-SB-4.0-5.0 **Collected: 8/10/2011 2:35:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.9		0.97	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-151-SA6-SB-4.0-5.0 **Collected: 8/10/2011 8:59:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-151-SA6-SB-9.0-10.0 **Collected: 8/10/2011 9:00:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.91	U	0.91	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-182-SA6-SB-4.0-5.0 **Collected: 8/10/2011 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
FLUORIDE	3.0		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-182-SA6-SB-9.0-10.0 **Collected: 8/10/2011 12:49:00** **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	J	0.91	MDL	1.1	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: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SL-183-SA6-SB-4.0-5.0 **Collected:** 8/10/2011 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	1.9		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-183-SA6-SB-9.0-10.0 **Collected:** 8/10/2011 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	2.4		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-007-SA5DN-SB-4.0-5.0 **Collected:** 8/10/2011 9:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.04	J	0.367	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	3.90	J	0.527	MDL	5.73	PQL	mg/Kg	J	Z

Sample ID: SL-071-SA5DN-SB-4.0-5.0 **Collected:** 8/10/2011 11:19:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.94	J	0.365	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	3.77	J	0.524	MDL	5.70	PQL	mg/Kg	J	Z

Sample ID: SL-071-SA5DN-SB-9.0-10.0 **Collected:** 8/10/2011 11:57:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.45	J	0.406	MDL	5.64	PQL	mg/Kg	J	Z
TIN	2.94	J	0.361	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	3.08	J	0.519	MDL	5.64	PQL	mg/Kg	U	B

Sample ID: SL-072-SA5DN-SB-4.0-5.0 **Collected:** 8/10/2011 2:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.16	J	0.366	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	4.03	J	0.526	MDL	5.72	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: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-151-SA6-SB-4.0-5.0 **Collected:** 8/10/2011 8:59:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.80	J	0.376	MDL	5.23	PQL	mg/Kg	J	Z
SODIUM	82.2	J	6.22	MDL	105	PQL	mg/Kg	J	Z
TIN	2.50	J	0.334	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.43	J	0.481	MDL	5.23	PQL	mg/Kg	U	B

Sample ID: SL-151-SA6-SB-9.0-10.0 **Collected:** 8/10/2011 9:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.64	J	0.396	MDL	5.50	PQL	mg/Kg	J	Z
TIN	3.18	J	0.352	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	2.59	J	0.506	MDL	5.50	PQL	mg/Kg	U	B

Sample ID: SL-182-SA6-SB-4.0-5.0 **Collected:** 8/10/2011 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
BORON	4.02	J	0.371	MDL	5.15	PQL	mg/Kg	J	Z
SODIUM	91.3	J	6.13	MDL	103	PQL	mg/Kg	J	Z
TIN	2.69	J	0.330	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.42	J	0.474	MDL	5.15	PQL	mg/Kg	U	B

Sample ID: SL-182-SA6-SB-9.0-10.0 **Collected:** 8/10/2011 12:49:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.12	J	0.399	MDL	5.54	PQL	mg/Kg	J	Z
TIN	3.00	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.54	J	0.510	MDL	5.54	PQL	mg/Kg	U	B

Sample ID: SL-183-SA6-SB-4.0-5.0 **Collected:** 8/10/2011 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	4.71	J	0.392	MDL	5.45	PQL	mg/Kg	J	Z
TIN	2.93	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.29	J	0.501	MDL	5.45	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: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-183-SA6-SB-9.0-10.0 **Collected:** 8/10/2011 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	4.09	J	0.398	MDL	5.53	PQL	mg/Kg	J	Z
TIN	3.05	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.23	J	0.509	MDL	5.53	PQL	mg/Kg	U	B

Sample ID: SL-185-SA6-SB-4.0-5.0 **Collected:** 8/10/2011 7:49:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.55	J	0.388	MDL	5.39	PQL	mg/Kg	J	Z
SODIUM	104	J	6.42	MDL	108	PQL	mg/Kg	J	Z
TIN	2.90	J	0.345	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	2.37	J	0.496	MDL	5.39	PQL	mg/Kg	U	B

Sample ID: SL-185-SA6-SB-9.0-10.0 **Collected:** 8/10/2011 7:50:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.85	J	0.401	MDL	5.57	PQL	mg/Kg	J	Z
SODIUM	96.8	J	6.63	MDL	111	PQL	mg/Kg	J	Z
TIN	3.03	J	0.357	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.02	J	0.513	MDL	5.57	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-007-SA5DN-SB-4.0-5.0 **Collected:** 8/10/2011 9:20:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0780	J	0.0659	MDL	0.454	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5DN-SB-4.0-5.0 **Collected:** 8/10/2011 9:20:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.156	J	0.0840	MDL	0.227	PQL	mg/Kg	J	Z, Q
SILVER	0.0561	J	0.0161	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	64.6		0.0250	MDL	0.114	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: DE221 **Laboratory:** LL

EDD Filename: DE221_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-071-SA5DN-SB-4.0-5.0 ***Collected:*** 8/10/2011 11:19:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.109	J	0.0844	MDL	0.228	PQL	mg/Kg	J	Z, Q
SILVER	0.0714	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	61.1		0.0251	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-071-SA5DN-SB-9.0-10.0 ***Collected:*** 8/10/2011 11:57:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.110	J	0.0835	MDL	0.226	PQL	mg/Kg	J	Z, Q
CADMIUM	0.0623	J	0.0496	MDL	0.113	PQL	mg/Kg	J	Z
SILVER	0.0549	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	43.5		0.0248	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-072-SA5DN-SB-4.0-5.0 ***Collected:*** 8/10/2011 2:35:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0880	U	0.0880	MDL	0.238	PQL	mg/Kg	UJ	Q
SILVER	0.0708	J	0.0169	MDL	0.119	PQL	mg/Kg	J	Z
VANADIUM	54.9		0.0262	MDL	0.119	PQL	mg/Kg	J	Q

Sample ID: SL-151-SA6-SB-4.0-5.0 ***Collected:*** 8/10/2011 8:59:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0773	U	0.0773	MDL	0.209	PQL	mg/Kg	UJ	Q
SILVER	0.0378	J	0.0148	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	38.7		0.0230	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-151-SA6-SB-9.0-10.0 ***Collected:*** 8/10/2011 9:00:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0903	J	0.0813	MDL	0.220	PQL	mg/Kg	J	Z, Q
SILVER	0.0400	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	42.4		0.0242	MDL	0.110	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: DE221 **Laboratory:** LL

EDD Filename: DE221_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-182-SA6-SB-4.0-5.0 ***Collected:*** 8/10/2011 12:45:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0631	J	0.0622	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-182-SA6-SB-4.0-5.0 ***Collected:*** 8/10/2011 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	0.0793	U	0.0793	MDL	0.214	PQL	mg/Kg	UJ	Q
CADMIUM	0.0585	J	0.0472	MDL	0.107	PQL	mg/Kg	J	Z
SILVER	0.0468	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	36.9		0.0236	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-182-SA6-SB-9.0-10.0 ***Collected:*** 8/10/2011 12:49:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0788	J	0.0649	MDL	0.448	PQL	mg/Kg	J	Z

Sample ID: SL-182-SA6-SB-9.0-10.0 ***Collected:*** 8/10/2011 12:49:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0828	U	0.0828	MDL	0.224	PQL	mg/Kg	UJ	Q
SILVER	0.0581	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	43.4		0.0246	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-183-SA6-SB-4.0-5.0 ***Collected:*** 8/10/2011 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	0.0727	J	0.0638	MDL	0.440	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA6-SB-4.0-5.0 ***Collected:*** 8/10/2011 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	0.0814	U	0.0814	MDL	0.220	PQL	mg/Kg	UJ	Q
CADMIUM	0.0845	J	0.0484	MDL	0.110	PQL	mg/Kg	J	Z
SILVER	0.0610	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	44.4		0.0242	MDL	0.110	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: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-183-SA6-SB-9.0-10.0 *Collected:* 8/10/2011 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	0.0693	J	0.0635	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA6-SB-9.0-10.0 *Collected:* 8/10/2011 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	0.0811	U	0.0811	MDL	0.219	PQL	mg/Kg	UJ	Q
SILVER	0.0337	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	39.2		0.0241	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-185-SA6-SB-4.0-5.0 *Collected:* 8/10/2011 7:49:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0806	U	0.0806	MDL	0.218	PQL	mg/Kg	UJ	Q
CADMIUM	0.0714	J	0.0479	MDL	0.109	PQL	mg/Kg	J	Z
SILVER	0.0707	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	43.3		0.0240	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-185-SA6-SB-9.0-10.0 *Collected:* 8/10/2011 7:50:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0825	U	0.0825	MDL	0.223	PQL	mg/Kg	UJ	Q
SILVER	0.0326	J	0.0158	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	37.5		0.0245	MDL	0.111	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-007-SA5DN-SB-4.0-5.0 *Collected:* 8/10/2011 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.69	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-071-SA5DN-SB-9.0-10.0 *Collected:* 8/10/2011 11:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	1.0	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-151-SA6-SB-4.0-5.0 *Collected:* 8/10/2011 8:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA6-SB-4.0-5.0 *Collected:* 8/10/2011 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	0.50	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA6-SB-9.0-10.0 *Collected:* 8/10/2011 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	0.50	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-071-SA5DN-SB-4.0-5.0 *Collected:* 8/10/2011 11:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0091	J	0.0082	MDL	0.116	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA5DN-SB-4.0-5.0 *Collected:* 8/10/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0091	J	0.0083	MDL	0.118	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: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-007-SA5DN-SB-4.0-5.0 *Collected:* 8/10/2011 9:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.8	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
AROCLOR 1260	0.72	J	0.46	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-072-SA5DN-SB-4.0-5.0 *Collected:* 8/10/2011 2:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.9	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z, S
AROCLOR 1260	1.0	J	0.46	MDL	2.0	PQL	ug/Kg	J	Z, S

Sample ID: SL-185-SA6-SB-9.0-10.0 *Collected:* 8/10/2011 7:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.63	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, S

Method Category: SVOA

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

Sample ID: SL-071-SA5DN-SB-4.0-5.0 *Collected:* 8/10/2011 11:19:00 *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	0.55	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z
ANTHRACENE	1.6	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.90	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.3	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	1.6	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
FLUORENE	1.1	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.5	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.78	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: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_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

Data Qualifier Summary

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE221

Method Blank Outlier Report

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22408DB221719	8/17/2011 5:19:00 PM	CALCIUM	7.06 mg/Kg	SL-007-SA5DN-SB-4.0-5.0
		IRON	3.13 mg/Kg	SL-071-SA5DN-SB-4.0-5.0
		PHOSPHORUS	1.34 mg/Kg	SL-071-SA5DN-SB-9.0-10.0
		STRONTIUM	0.0390 mg/Kg	SL-072-SA5DN-SB-4.0-5.0
		TIN	1.93 mg/Kg	SL-151-SA6-SB-4.0-5.0
				SL-151-SA6-SB-9.0-10.0
				SL-182-SA6-SB-4.0-5.0
				SL-182-SA6-SB-9.0-10.0
				SL-183-SA6-SB-4.0-5.0
				SL-183-SA6-SB-9.0-10.0
				SL-185-SA6-SB-4.0-5.0
				SL-185-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-007-SA5DN-SB-4.0-5.0(RES)	TIN	3.04 mg/Kg	3.04U mg/Kg
SL-071-SA5DN-SB-4.0-5.0(RES)	TIN	2.94 mg/Kg	2.94U mg/Kg
SL-071-SA5DN-SB-9.0-10.0(RES)	TIN	2.94 mg/Kg	2.94U mg/Kg
SL-072-SA5DN-SB-4.0-5.0(RES)	TIN	3.16 mg/Kg	3.16U mg/Kg
SL-151-SA6-SB-4.0-5.0(RES)	TIN	2.50 mg/Kg	2.50U mg/Kg
SL-151-SA6-SB-9.0-10.0(RES)	TIN	3.18 mg/Kg	3.18U mg/Kg
SL-182-SA6-SB-4.0-5.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg
SL-182-SA6-SB-9.0-10.0(RES)	TIN	3.00 mg/Kg	3.00U mg/Kg
SL-183-SA6-SB-4.0-5.0(RES)	TIN	2.93 mg/Kg	2.93U mg/Kg
SL-183-SA6-SB-9.0-10.0(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-185-SA6-SB-4.0-5.0(RES)	TIN	2.90 mg/Kg	2.90U mg/Kg
SL-185-SA6-SB-9.0-10.0(RES)	TIN	3.03 mg/Kg	3.03U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6850
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-071-SA5DN-SB-4.0-5.0MSD (SL-071-SA5DN-SB-4.0-5.0)	PERCHLORATE	-	123	80.00-120.00	-	PERCHLORATE	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-007-SA5DN-SB-4.0-5.0MS (SL-007-SA5DN-SB-4.0-5.0 SL-071-SA5DN-SB-4.0-5.0 SL-071-SA5DN-SB-9.0-10.0 SL-072-SA5DN-SB-4.0-5.0 SL-151-SA6-SB-4.0-5.0 SL-151-SA6-SB-9.0-10.0 SL-182-SA6-SB-4.0-5.0 SL-182-SA6-SB-9.0-10.0 SL-183-SA6-SB-4.0-5.0 SL-183-SA6-SB-9.0-10.0)	FLUORIDE	58	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

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

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
SL-007-SA5DN-SB-4.0-5.0DUP (SL-007-SA5DN-SB-4.0-5.0 SL -071-SA5DN-SB-4.0-5.0 SL -071-SA5DN-SB-9.0-10.0 SL -072-SA5DN-SB-4.0-5.0 SL -151-SA6-SB-4.0-5.0 SL -151-SA6-SB-9.0-10.0 SL -182-SA6-SB-4.0-5.0 SL -182-SA6-SB-9.0-10.0 SL -183-SA6-SB-4.0-5.0 SL -183-SA6-SB-9.0-10.0)	FLUORIDE	29	20.00	No Qual, OK by Difference

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_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
P12341AY241914A (SL-007-SA5DN -SB-4.0-5.0 SL -071-SA5DN -SB-4.0-5.0 SL -071-SA5DN -SB-9.0-10.0 SL -072-SA5DN -SB-4.0-5.0 SL -151-SA6-SB-4.0-5.0 SL -151-SA6-SB-9.0-10.0 SL -182-SA6-SB-4.0-5.0 SL -182-SA6-SB-9.0-10.0 SL -183-SA6-SB-4.0-5.0 SL -183-SA6-SB-9.0-10.0 SL -185-SA6-SB-4.0-5.0 SL -185-SA6-SB-9.0-10.0)	Aroclor 5442	-	114	36.00-106.00	-	Aroclor 5432 Aroclor 5442 Aroclor 5460	J (all detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22408DQ221723 (SL-007-SA5DN -SB-4.0-5.0 SL -071-SA5DN -SB-4.0-5.0 SL -071-SA5DN -SB-9.0-10.0 SL -072-SA5DN -SB-4.0-5.0 SL -151-SA6-SB-4.0-5.0 SL -151-SA6-SB-9.0-10.0 SL -182-SA6-SB-4.0-5.0 SL -182-SA6-SB-9.0-10.0 SL -183-SA6-SB-4.0-5.0 SL -183-SA6-SB-9.0-10.0 SL -185-SA6-SB-4.0-5.0 SL -185-SA6-SB-9.0-10.0)	ALUMINUM IRON TITANIUM	141 136 180	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON TITANIUM	No Qual, SRM within QC Limits

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

Surrogate Outlier Report

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-072-SA5DN-SB-4.0-5.0	TETRACHLORO-M-XYLENE	173	53.00-139.00	All Target Analytes	J (all detects)
SL-151-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	156 167	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)
SL-182-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	129 140	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)
SL-183-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL	125	45.00-120.00	All Target Analytes	J(all detects)
SL-185-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	169 155	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)
SL-185-SA6-SB-9.0-10.0	DECACHLOROBIPHENYL	145	45.00-120.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SB-4.0-5.0	TIN	J	3.04	11.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.90	5.73	PQL	mg/Kg	
SL-071-SA5DN-SB-4.0-5.0	TIN	J	2.94	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.77	5.70	PQL	mg/Kg	
SL-071-SA5DN-SB-9.0-10.0	BORON	J	5.45	5.64	PQL	mg/Kg	J (all detects)
	TIN	J	2.94	11.3	PQL	mg/Kg	
	Zirconium	J	3.08	5.64	PQL	mg/Kg	
SL-072-SA5DN-SB-4.0-5.0	TIN	J	3.16	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.03	5.72	PQL	mg/Kg	
SL-151-SA6-SB-4.0-5.0	BORON	J	4.80	5.23	PQL	mg/Kg	J (all detects)
	SODIUM	J	82.2	105	PQL	mg/Kg	
	TIN	J	2.50	10.5	PQL	mg/Kg	
	Zirconium	J	2.43	5.23	PQL	mg/Kg	
SL-151-SA6-SB-9.0-10.0	BORON	J	3.64	5.50	PQL	mg/Kg	J (all detects)
	TIN	J	3.18	11.0	PQL	mg/Kg	
	Zirconium	J	2.59	5.50	PQL	mg/Kg	
SL-182-SA6-SB-4.0-5.0	BORON	J	4.02	5.15	PQL	mg/Kg	J (all detects)
	SODIUM	J	91.3	103	PQL	mg/Kg	
	TIN	J	2.69	10.3	PQL	mg/Kg	
	Zirconium	J	2.42	5.15	PQL	mg/Kg	
SL-182-SA6-SB-9.0-10.0	BORON	J	4.12	5.54	PQL	mg/Kg	J (all detects)
	TIN	J	3.00	11.1	PQL	mg/Kg	
	Zirconium	J	2.54	5.54	PQL	mg/Kg	
SL-183-SA6-SB-4.0-5.0	BORON	J	4.71	5.45	PQL	mg/Kg	J (all detects)
	TIN	J	2.93	10.9	PQL	mg/Kg	
	Zirconium	J	2.29	5.45	PQL	mg/Kg	
SL-183-SA6-SB-9.0-10.0	BORON	J	4.09	5.53	PQL	mg/Kg	J (all detects)
	TIN	J	3.05	11.1	PQL	mg/Kg	
	Zirconium	J	2.23	5.53	PQL	mg/Kg	
SL-185-SA6-SB-4.0-5.0	BORON	J	4.55	5.39	PQL	mg/Kg	J (all detects)
	SODIUM	J	104	108	PQL	mg/Kg	
	TIN	J	2.90	10.8	PQL	mg/Kg	
	Zirconium	J	2.37	5.39	PQL	mg/Kg	
SL-185-SA6-SB-9.0-10.0	BORON	J	3.85	5.57	PQL	mg/Kg	J (all detects)
	SODIUM	J	96.8	111	PQL	mg/Kg	
	TIN	J	3.03	11.1	PQL	mg/Kg	
	Zirconium	J	2.02	5.57	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.156	0.227	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0780	0.454	PQL	mg/Kg	
	SILVER	J	0.0561	0.114	PQL	mg/Kg	
SL-071-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.109	0.228	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0714	0.114	PQL	mg/Kg	
SL-071-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.110	0.226	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0623	0.113	PQL	mg/Kg	
	SILVER	J	0.0549	0.113	PQL	mg/Kg	
SL-072-SA5DN-SB-4.0-5.0	SILVER	J	0.0708	0.119	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: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-151-SA6-SB-4.0-5.0	SILVER	J	0.0378	0.105	PQL	mg/Kg	J (all detects)
SL-151-SA6-SB-9.0-10.0	ANTIMONY	J	0.0903	0.220	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0400	0.110	PQL	mg/Kg	
SL-182-SA6-SB-4.0-5.0	CADMIUM	J	0.0585	0.107	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0631	0.429	PQL	mg/Kg	
	SILVER	J	0.0468	0.107	PQL	mg/Kg	
SL-182-SA6-SB-9.0-10.0	SELENIUM	J	0.0788	0.448	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0581	0.112	PQL	mg/Kg	
SL-183-SA6-SB-4.0-5.0	CADMIUM	J	0.0845	0.110	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0727	0.440	PQL	mg/Kg	
	SILVER	J	0.0610	0.110	PQL	mg/Kg	
SL-183-SA6-SB-9.0-10.0	SELENIUM	J	0.0693	0.438	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0337	0.110	PQL	mg/Kg	
SL-185-SA6-SB-4.0-5.0	CADMIUM	J	0.0714	0.109	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0707	0.109	PQL	mg/Kg	
SL-185-SA6-SB-9.0-10.0	SILVER	J	0.0326	0.111	PQL	mg/Kg	J (all detects)

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.69	1.2	PQL	mg/Kg	J (all detects)
SL-071-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	1.0	1.2	PQL	mg/Kg	J (all detects)
SL-151-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-183-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-183-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-071-SA5DN-SB-4.0-5.0	MERCURY	J	0.0091	0.116	PQL	mg/Kg	J (all detects)
SL-072-SA5DN-SB-4.0-5.0	MERCURY	J	0.0091	0.118	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SB-4.0-5.0	AROCLOR 1254	J	1.8	2.0	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.72	2.0	PQL	ug/Kg	
SL-072-SA5DN-SB-4.0-5.0	AROCLOR 1254	J	1.9	2.0	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.0	2.0	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-185-SA6-SB-9.0-10.0	AROCLOR 1254	J	0.63	1.9	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-071-SA5DN-SB-4.0-5.0	ACENAPHTHYLENE	J	0.55	1.9	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	1.6	1.9	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	0.90	1.9	PQL	ug/Kg	
	CHRYSENE	J	1.3	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.6	1.9	PQL	ug/Kg	
	FLUORENE	J	1.1	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.5	1.9	PQL	ug/Kg	
	PYRENE	J	1.2	1.9	PQL	ug/Kg	

LDC #: 26533J4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/7/11
SDG #: DE221 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: A

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	NSW	see DZ-mm
VII.	Duplicate Sample Analysis	NA	
VIII.	Laboratory Control Samples (LCS)	NA	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	—	

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-007-SA5DN-SB-4.0-5.0	11	SL-185-SA6-SB-4.0-5.0	21		31	
2	SL-071-SA5DN-SB-4.0-5.0	12	SL-185-SA6-SB-9.0-10.0	22		32	
3	SL-071-SA5DN-SB-9.0-10.0	13		23		33	
4	SL-072-SA5DN-SB-4.0-5.0	14		24		34	
5	SL-151-SA6-SB-4.0-5.0	15		25		35	
6	SL-151-SA6-SB-9.0-10.0	16		26		36	
7	SL-182-SA6-SB-4.0-5.0	17		27		37	
8	SL-182-SA6-SB-9.0-10.0	18		28		38	
9	SL-183-SA6-SB-4.0-5.0	19		29		39	
10	SL-183-SA6-SB-9.0-10.0	20		30		40	

Notes: _____

LDC #: 26533K4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: ICP:100X, ICP/MS: 200X
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	3	5	6	7	8	9	10	11	12	
Zr			6.7	3.35	3.1	2.4	2.6	2.4	2.5	2.3	2.2	2.4	2.0	

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

DE222

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
11-Aug-2011	TB-081111	6374017	TB	5030B	8015M	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3050B	6010B	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3050B	6020	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3060A	7199	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3550B	8082	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3550B	8270C	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3550B	8270C SIM	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	METHOD	300.0	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	METHOD	314.0	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	METHOD	7471A	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3050B	6010B	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3050B	6020	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3060A	7199	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3550B	8082	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3550B	8270C	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3550B	8270C SIM	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	METHOD	300.0	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	METHOD	314.0	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	METHOD	6850	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	METHOD	7471A	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	3050B	6010B	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	3050B	6020	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	3060A	7199	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	3550B	8082	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	3550B	8270C	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	METHOD	300.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	METHOD	314.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	METHOD	7471A	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3050B	6010B	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3050B	6020	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3060A	7199	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3550B	8082	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3550B	8270C	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3550B	8270C SIM	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	METHOD	300.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	METHOD	314.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	METHOD	7471A	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	3050B	6010B	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	3050B	6020	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	3550B	8082	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	3550B	8270C	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	3550B	8270C SIM	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	METHOD	7471A	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	3050B	6010B	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	3050B	6020	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	3060A	7199	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	METHOD	300.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	METHOD	314.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	METHOD	7471A	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3050B	6010B	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3050B	6020	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3060A	7199	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3550B	8082	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3550B	8270C	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3550B	8270C SIM	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	METHOD	300.0	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	METHOD	314.0	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	METHOD	7471A	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3050B	6010B	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3050B	6020	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3060A	7199	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3546	1625C	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3550B	8015B	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3550B	8015M	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3550B	8082	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3550B	8270C	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3550B	8270C SIM	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	5035	8015M	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	8330	8330A	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	300.0	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	314.0	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	7471A	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	8015B	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	8015M	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	8315A	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	9012B	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0MS	P374009R241837A	MS	METHOD	8315A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0MS	P374009R262226	MS	3546	1625C	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3005A	6010B	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3020A	6020	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3510C	8015B	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3510C	8015M	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3510C	8082	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3510C	8270C	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3510C	8270C SIM	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3520C	1625C	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	5030B	8015M	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	5030B	8260B	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	5030B	8260B SIM	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	8330	8330A	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	Gen Prep	300.0	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	Gen Prep	314.0	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	Gen Prep	7199	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	Gen Prep	8015B	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	Gen Prep	8015M	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	METHOD	7470A	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	METHOD	8315A	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	METHOD	9012B	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3050B	6010B	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3050B	6020	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3060A	7199	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3550B	8015M	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3550B	8082	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3550B	8270C	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3550B	8270C SIM	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	5035	8015M	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	METHOD	300.0	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	METHOD	314.0	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	METHOD	7471A	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	METHOD	8015B	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	METHOD	8015M	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3050B	6010B	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3050B	6020	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3060A	7199	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3550B	8082	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3550B	8270C	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3550B	8270C SIM	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	METHOD	300.0	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	METHOD	314.0	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	METHOD	6850	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: DUP24-SA6-QC-081111 *Collected:* 8/11/2011 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
FLUORIDE	2.6		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5DN-SB-4.0-5.0 *Collected:* 8/11/2011 8:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	15.8		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5DN-SB-9.0-10.0 *Collected:* 8/11/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-033-SA6-SB-2.5-3.5 *Collected:* 8/11/2011 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.9		0.84	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	0.88	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA6-SB-4.0-5.0 *Collected:* 8/11/2011 10:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.84	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-174-SA6-SB-2.0-3.0 *Collected:* 8/11/2011 2:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.7		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-207-SA5DN-SB-4.0-5.0 *Collected:* 8/11/2011 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	24.4		0.93	MDL	1.2	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: DE222 **Laboratory:** LL

EDD Filename: DE222_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM **Method:** 314.0 **Matrix:** AQ

Sample ID: EB-SA5DN-SB-081111 *Collected:* 8/11/2011 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	0.70	U	0.70	MDL	2.0	PQL	ug/L	UJ	L

Method Category: METALS **Method:** 6010B **Matrix:** AQ

Sample ID: EB-SA5DN-SB-081111 *Collected:* 8/11/2011 12:30:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0055	J	0.0022	MDL	0.0500	PQL	mg/L	U	B

Method Category: METALS **Method:** 6010B **Matrix:** SO

Sample ID: DUP24-SA6-QC-081111 *Collected:* 8/11/2011 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
BORON	3.96	J	0.379	MDL	5.26	PQL	mg/Kg	J	Z
SODIUM	87.4	J	6.26	MDL	105	PQL	mg/Kg	J	Z
TIN	2.81	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.33	J	0.484	MDL	5.26	PQL	mg/Kg	UJ	FD, B

Sample ID: SL-006-SA5DN-SB-4.0-5.0 *Collected:* 8/11/2011 8:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.14	J	0.362	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	3.31	J	0.520	MDL	5.65	PQL	mg/Kg	U	B

Sample ID: SL-006-SA5DN-SB-9.0-10.0 *Collected:* 8/11/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.03	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.59	J	0.501	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

Data Qualifier Summary

Lab Reporting Batch ID: DE222 **Laboratory:** LL

EDD Filename: DE222_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-033-SA6-SB-2.5-3.5 *Collected:* 8/11/2011 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.23	J	0.366	MDL	5.09	PQL	mg/Kg	J	Z
SODIUM	68.4	J	6.05	MDL	102	PQL	mg/Kg	J	Z
TIN	2.68	J	0.325	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.62	J	0.468	MDL	5.09	PQL	mg/Kg	U	B

Sample ID: SL-155-SA6-SB-4.0-5.0 *Collected:* 8/11/2011 10:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.32	J	0.378	MDL	5.24	PQL	mg/Kg	J	Z
SODIUM	86.9	J	6.24	MDL	105	PQL	mg/Kg	J	Z
TIN	2.78	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	4.48	J	0.482	MDL	5.24	PQL	mg/Kg	J	Z, FD

Sample ID: SL-174-SA6-SB-2.0-3.0 *Collected:* 8/11/2011 2:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.30	J	0.371	MDL	5.16	PQL	mg/Kg	J	Z
TIN	2.81	J	0.330	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.34	J	0.474	MDL	5.16	PQL	mg/Kg	U	B

Sample ID: SL-207-SA5DN-SB-4.0-5.0 *Collected:* 8/11/2011 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	3.07	J	0.351	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	4.18	J	0.505	MDL	5.49	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** AQ

Sample ID: EB-SA5DN-SB-081111 *Collected:* 8/11/2011 12:30:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.00011	J	0.000080	MDL	0.0010	PQL	mg/L	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: DE222 **Laboratory:** LL

EDD Filename: DE222_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP24-SA6-QC-081111 ***Collected:*** 8/11/2011 10:15:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.103	J	0.0604	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: DUP24-SA6-QC-081111 ***Collected:*** 8/11/2011 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	0.0771	U	0.0771	MDL	0.208	PQL	mg/Kg	UJ	Q, FD
CADMIUM	0.0459	U	0.0459	MDL	0.104	PQL	mg/Kg	UJ	FD
SILVER	0.0421	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	37.2		0.0229	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5DN-SB-4.0-5.0 ***Collected:*** 8/11/2011 8:20:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.142	J	0.0836	MDL	0.226	PQL	mg/Kg	J	Z, Q
CADMIUM	0.107	J	0.0497	MDL	0.113	PQL	mg/Kg	J	Z
SILVER	0.0487	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	55.4		0.0249	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5DN-SB-9.0-10.0 ***Collected:*** 8/11/2011 9:10:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0815	U	0.0815	MDL	0.220	PQL	mg/Kg	UJ	Q
CADMIUM	0.0976	J	0.0484	MDL	0.110	PQL	mg/Kg	J	Z
SILVER	0.0241	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	49.2		0.0242	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-033-SA6-SB-2.5-3.5 ***Collected:*** 8/11/2011 2:40:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.108	J	0.0584	MDL	0.403	PQL	mg/Kg	J	Z

Sample ID: SL-033-SA6-SB-2.5-3.5 ***Collected:*** 8/11/2011 2:40:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0745	U	0.0745	MDL	0.201	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: DE222 **Laboratory:** LL

EDD Filename: DE222_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-033-SA6-SB-2.5-3.5 ***Collected:*** 8/11/2011 2:40:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0383	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z
VANADIUM	31.0		0.0222	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-155-SA6-SB-4.0-5.0 ***Collected:*** 8/11/2011 10:09:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.120	J	0.0608	MDL	0.420	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA6-SB-4.0-5.0 ***Collected:*** 8/11/2011 10:09:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.129	J	0.0776	MDL	0.210	PQL	mg/Kg	J	Z, Q, FD
CADMIUM	0.0475	J	0.0461	MDL	0.105	PQL	mg/Kg	J	Z, FD
SILVER	0.0466	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	36.1		0.0231	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-174-SA6-SB-2.0-3.0 ***Collected:*** 8/11/2011 2:46:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.103	J	0.0604	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: SL-174-SA6-SB-2.0-3.0 ***Collected:*** 8/11/2011 2:46:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0849	J	0.0771	MDL	0.208	PQL	mg/Kg	J	Z, Q
SILVER	0.0241	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	40.1		0.0229	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-207-SA5DN-SB-4.0-5.0 ***Collected:*** 8/11/2011 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	0.145	J	0.0845	MDL	0.228	PQL	mg/Kg	J	Z, Q
SILVER	0.0366	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	71.1		0.0251	MDL	0.114	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: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS
Method: 7199 **Matrix: SO**

Sample ID: DUP24-SA6-QC-081111 *Collected:* 8/11/2011 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
HEXAVALENT CHROMIUM	0.49	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA6-SB-4.0-5.0 *Collected:* 8/11/2011 10:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.78	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-174-SA6-SB-2.0-3.0 *Collected:* 8/11/2011 2:46:00 *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	0.21	MDL	1.0	PQL	mg/Kg	J	Z

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

Sample ID: SL-006-SA5DN-SB-4.0-5.0 *Collected:* 8/11/2011 8:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0090	J	0.0076	MDL	0.108	PQL	mg/Kg	J	Z

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

Sample ID: EB-SA5DN-SB-081111 *Collected:* 8/11/2011 12:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	3.88		0.507	MDL	1.01	PQL	ng/L	UJ	B, S

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

Sample ID: SL-207-SA5DN-SB-4.0-5.0 *Collected:* 8/11/2011 10:55:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.70	J	0.46	MDL	1.4	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: DE222 **Laboratory:** LL

EDD Filename: DE222_v2 **eQAPP Name:** CDM_SSFL_110509

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

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

Sample ID: DUP24-SA6-QC-081111 *Collected:* 8/11/2011 10:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	FD

Sample ID: SL-006-SA5DN-SB-4.0-5.0 *Collected:* 8/11/2011 8:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.57	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-033-SA6-SB-2.5-3.5 *Collected:* 8/11/2011 2:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.45	J	0.40	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA6-SB-4.0-5.0 *Collected:* 8/11/2011 10:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.93	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, FD

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

Sample ID: EB-SA5DN-SB-081111 *Collected:* 8/11/2011 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,5-Dimethylphenol	3	U	3	MDL	10	PQL	ug/L	R	L
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-033-SA6-SB-2.5-3.5 *Collected:* 8/11/2011 2:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	17	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA6-SB-4.0-5.0 *Collected:* 8/11/2011 10:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1200	U	1200	MDL	3500	PQL	ug/Kg	R	Q
BIS(2-ETHYLHEXYL)PHTHALATE	63	J	18	MDL	350	PQL	ug/Kg	J	Z
Di-n-octylphthalate	49	J	18	MDL	180	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C SIM **Matrix: AQ**

Sample ID: EB-SA5DN-SB-081111 *Collected:* 8/11/2011 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
2-METHYLNAPHTHALENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
ACENAPHTHENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
ACENAPHTHYLENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
ANTHRACENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
BENZO(A)ANTHRACENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
BENZO(A)PYRENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
BENZO(B)FLUORANTHENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
BENZO(G,H,I)PERYLENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
BENZO(K)FLUORANTHENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
BIS(2-ETHYLHEXYL)PHTHALATE	0.054	U	0.054	MDL	1.1	PQL	ug/L	UJ	E
Butylbenzylphthalate	0.14	J	0.054	MDL	1.1	PQL	ug/L	J	Z, E
CHRYSENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
DIBENZO(A,H)ANTHRACENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
Diethylphthalate	0.13	J	0.054	MDL	1.1	PQL	ug/L	J	Z, E
Dimethylphthalate	0.054	U	0.054	MDL	1.1	PQL	ug/L	UJ	E
Di-n-butylphthalate	0.71	J	0.054	MDL	1.1	PQL	ug/L	J	Z, L, E
FLUORANTHENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
FLUORENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, 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: DE222 **Laboratory:** LL

EDD Filename: DE222_v2 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: EB-SA5DN-SB-081111 *Collected:* 8/11/2011 12:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
NAPHTHALENE	0.097		0.032	MDL	0.054	PQL	ug/L	J	L, E
N-NITROSODIMETHYLAMINE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
PHENANTHRENE	0.032	U	0.032	MDL	0.054	PQL	ug/L	UJ	L, E
PYRENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E

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

Sample ID: SL-006-SA5DN-SB-9.0-10.0 *Collected:* 8/11/2011 9:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.9	J	6.8	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-033-SA6-SB-2.5-3.5 *Collected:* 8/11/2011 2:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.87	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.2	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.99	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.85	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA6-SB-4.0-5.0 *Collected:* 8/11/2011 10:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	Q

Method Category: SVOA
Method: 8330A **Matrix:** AQ

Sample ID: EB-SA5DN-SB-081111 *Collected:* 8/11/2011 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-AMINO-2,6-DINITROTOLUENE	0.41	J	0.30	MDL	0.60	PQL	ug/L	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: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

* 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: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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: DE222 **Laboratory: LL**

EDD Filename: DE222_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

Data Qualifier Summary

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE222

Method Blank Outlier Report

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWE22B261554	8/16/2011 3:54:00 PM	N-NITROSODIMETHYLAMINE	1.64 ng/L	EB-SA5DN-SB-081111

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-SA5DN-SB-081111(RES)	N-NITROSODIMETHYLAMINE	3.88 ng/L	3.88U ng/L

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23048AB221844	8/19/2011 6:44:00 PM	BORON	0.0025 mg/L	EB-SA5DN-SB-081111

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-SA5DN-SB-081111(REA2)	BORON	0.0055 mg/L	0.0055U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22408DB221719	8/17/2011 5:19:00 PM	CALCIUM	7.06 mg/Kg	DUP24-SA6-QC-081111
		IRON	3.13 mg/Kg	SL-006-SA5DN-SB-4.0-5.0
		PHOSPHORUS	1.34 mg/Kg	SL-006-SA5DN-SB-9.0-10.0
		STRONTIUM	0.0390 mg/Kg	SL-033-SA6-SB-2.5-3.5
		TIN	1.93 mg/Kg	SL-155-SA6-SB-4.0-5.0
				SL-174-SA6-SB-2.0-3.0
				SL-207-SA5DN-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
DUP24-SA6-QC-081111(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-006-SA5DN-SB-4.0-5.0(RES)	TIN	3.14 mg/Kg	3.14U mg/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	TIN	3.03 mg/Kg	3.03U mg/Kg
SL-033-SA6-SB-2.5-3.5(RES)	TIN	2.68 mg/Kg	2.68U mg/Kg
SL-155-SA6-SB-4.0-5.0(RES)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-174-SA6-SB-2.0-3.0(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	TIN	3.07 mg/Kg	3.07U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLE23B260610	8/31/2011 6:10:00 AM	ANTHRACENE FLUORENE	0.65 ug/Kg 0.97 ug/Kg	DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-155-SA6-SB-4.0-5.0MS (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	VANADIUM	136	-	75.00-125.00	-	VANADIUM	J (all detects)
SL-155-SA6-SB-4.0-5.0MS **SL-155-SA6-SB-4.0-5.0MSD** (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	ANTIMONY	28	30	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects) post spike = 76%
SL-155-SA6-SB-4.0-5.0MS (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	BARIUM	171	-	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-155-SA6-SB-4.0-5.0MS	ALUMINUM	1728	1453	75.00-125.00	-	ALUMINUM	
SL-155-SA6-SB-4.0-5.0MSD	CALCIUM	128	143	75.00-125.00	-	CALCIUM	
(DUP24-SA6-QC-081111	IRON	170	873	75.00-125.00	-	IRON	
SL-006-SA5DN-SB-4.0-5.0	MAGNESIUM	-	206	75.00-125.00	-	MAGNESIUM	
SL-006-SA5DN-SB-9.0-10.0	TITANIUM	216	240	75.00-125.00	-	TITANIUM	No Qual, >4x
SL-033-SA6-SB-2.5-3.5							
SL-155-SA6-SB-4.0-5.0							
SL-174-SA6-SB-2.0-3.0							
SL-207-SA5DN-SB-4.0-5.0)							

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-155-SA6-SB-4.0-5.0MSD	3,3'-DICHLOROBENZIDINE	-	-	28.00-109.00	33 (30.00)	3,3'-DICHLOROBENZIDINE	J(all detects)
(SL-155-SA6-SB-4.0-5.0)	4-CHLOROANILINE	-	-	13.00-107.00	40 (30.00)	4-CHLOROANILINE	
SL-155-SA6-SB-4.0-5.0MS **SL-155-SA6-SB-4.0-5.0MSD** (SL-155-SA6-SB-4.0-5.0)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **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-155-SA6-SB-4.0-5.0MSD (SL-155-SA6-SB-4.0-5.0)	1-METHYLNAPHTHALENE	-	71	72.00-123.00	-	1-METHYLNAPHTHALENE	J(all detects) UJ(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-155-SA6-SB-4.0-5.0MS (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	FLUORIDE	25	-	80.00-120.00	-	FLUORIDE	J(all detects) R(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-155-SA6-SB-4.0-5.0DUP (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	Zirconium	42	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-155-SA6-SB-4.0-5.0DUP (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	ANTIMONY	44	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_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
P12273AQ240057A	2,4,6-TRINITROTOLUENE	110	-	76.00-109.00	-	2,4,6-TRINITROTOLUENE	
P12273AY240139A	3-NITROTOLUENE	110	110	69.00-107.00	-	3-NITROTOLUENE	J (all detects)
(EB-SA5DN -SB-081111)	PETN	138	138	80.00-120.00	-	PETN	

Method: 314.0
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
Q11228Y270654A (EB-SA5DN -SB-081111)	PERCHLORATE	-	-	85.00-115.00	20 (15.00)	PERCHLORATE	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8WFLCSQ260954 P8WFLCSY261019 (EB-SA5DN -SB-081111)	3,5-Dimethylphenol	1	1	70.00-130.00	-	3,5-Dimethylphenol	J(all detects) R(all non-detects)
P8WFLCSY261019 (EB-SA5DN -SB-081111)	BENZOIC ACID	-	-	10.00-69.00	34 (30.00)	BENZOIC ACID	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
P9WALCSQ260622 P9WALCSY260654 (EB-SA5DN -SB-081111)	1-METHYLNAPHTHALENE	63	-	71.00-117.00	43 (30.00)	1-METHYLNAPHTHALENE	
	2-METHYLNAPHTHALENE	63	-	75.00-115.00	43 (30.00)	2-METHYLNAPHTHALENE	
	ACENAPHTHENE	66	-	74.00-109.00	44 (30.00)	ACENAPHTHENE	
	ACENAPHTHYLENE	65	-	70.00-110.00	45 (30.00)	ACENAPHTHYLENE	
	ANTHRACENE	-	-	66.00-111.00	44 (30.00)	ANTHRACENE	
	BENZO(A)ANTHRACENE	68	-	72.00-114.00	43 (30.00)	BENZO(A)ANTHRACENE	
	BENZO(A)PYRENE	-	-	60.00-127.00	43 (30.00)	BENZO(A)PYRENE	
	BENZO(B)FLUORANTHENE	-	-	58.00-151.00	43 (30.00)	BENZO(B)FLUORANTHENE	
	BENZO(G,H,I)PERYLENE	-	-	57.00-131.00	46 (30.00)	BENZO(G,H,I)PERYLENE	
	BENZO(K)FLUORANTHENE	-	-	59.00-130.00	42 (30.00)	BENZO(K)FLUORANTHENE	
	BIS(2-ETHYLHEXYL)PHTHALAT	-	-	57.00-154.00	41 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	
	Butylbenzylphthalate	-	-	40.00-138.00	38 (30.00)	Butylbenzylphthalate	J(all detects)
	CHRYSENE	67	-	76.00-116.00	43 (30.00)	CHRYSENE	UJ(all non-detects)
	DIBENZO(A,H)ANTHRACENE	-	-	55.00-134.00	46 (30.00)	DIBENZO(A,H)ANTHRACENE	
	Diethylphthalate	-	-	57.00-134.00	44 (30.00)	Diethylphthalate	
	Dimethylphthalate	-	-	40.00-119.00	43 (30.00)	Dimethylphthalate	
	Di-n-butylphthalate	71	-	74.00-131.00	46 (30.00)	Di-n-butylphthalate	
	FLUORANTHENE	72	-	75.00-116.00	44 (30.00)	FLUORANTHENE	
	FLUORENE	72	-	75.00-114.00	43 (30.00)	FLUORENE	
	INDENO(1,2,3-CD)PYRENE	58	-	69.00-124.00	46 (30.00)	INDENO(1,2,3-CD)PYRENE	
	NAPHTHALENE	65	-	72.00-109.00	42 (30.00)	NAPHTHALENE	
	N-NITROSODIMETHYLAMINE	-	-	36.00-89.00	52 (30.00)	N-NITROSODIMETHYLAMINE	
	PHENANTHRENE	66	-	76.00-111.00	44 (30.00)	PHENANTHRENE	
	PYRENE	67	-	69.00-118.00	44 (30.00)	PYRENE	

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 7470A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23013CY221556 (EB-SA5DN-SB-081111)	MERCURY	-	89	90.00-115.00	-	MERCURY	No Qual, SRM within QC Limits

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12311AQ321700A (SL-033-SA6-SB-2.5-3.5)	ETHYLENE GLYCOL	123	-	65.00-122.00	-	ETHYLENE GLYCOL	J(all detects)

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12341AY241914A (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	Aroclor 5442	-	114	36.00-106.00	-	Aroclor 5432 Aroclor 5442 Aroclor 5460	J(all detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22408DQ221723 (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	ALUMINUM IRON TITANIUM	141 136 180	- - -	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: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
EB-SA5DN-SB-081111	N-Nitrosodimethylamine-d6	219	50.00-150.00	All Target Analytes	J (all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
MOISTURE	5.6	5.0	11		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
FLUORIDE	2.3	2.6	12	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
ALUMINUM	20600	20000	3	50.00	
BORON	4.32	3.96	9	50.00	
CALCIUM	1960	1930	2	50.00	
IRON	20700	20600	0	50.00	
LITHIUM	25.9	25.9	0	50.00	
MAGNESIUM	4630	4470	4	50.00	
MANGANESE	217	188	14	50.00	No Qualifiers Applied
PHOSPHORUS	220	208	6	50.00	
POTASSIUM	1590	1510	5	50.00	
SODIUM	86.9	87.4	1	50.00	
STRONTIUM	17.0	16.8	1	50.00	
TIN	2.78	2.81	1	50.00	
TITANIUM	1140	1090	4	50.00	
Zirconium	4.48	2.33	63	50.00	J(all detects)

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
ARSENIC	3.50	4.01	14	50.00	
BARIUM	86.8	89.4	3	50.00	
BERYLLIUM	0.606	0.639	5	50.00	
CHROMIUM	18.5	19.2	4	50.00	
COBALT	4.37	4.79	9	50.00	
COPPER	6.34	6.16	3	50.00	
LEAD	4.67	4.98	6	50.00	
MOLYBDENUM	0.531	0.623	16	50.00	No Qualifiers Applied
NICKEL	11.5	11.7	2	50.00	
SELENIUM	0.120	0.103	15	50.00	
SILVER	0.0466	0.0421	10	50.00	
THALLIUM	0.223	0.222	0	50.00	
VANADIUM	36.1	37.2	3	50.00	
ZINC	45.3	44.1	3	50.00	
ANTIMONY	0.129	0.208 U	200	50.00	J(all detects)
CADMIUM	0.0475	0.104 U	200	50.00	UJ(all non-detects)

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
HEXAVALENT CHROMIUM	0.78	0.49	46	50.00	No Qualifiers Applied

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
AROCLOR 1254	0.93	1.8 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
PH	6.09	6.00	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DN-SB-081111	BORON	J	0.0055	0.0500	PQL	mg/L	J (all detects)

Method: 6020
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DN-SB-081111	LEAD	J	0.00011	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-SA5DN-SB-081111	Butylbenzylphthalate	J	0.14	1.1	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.13	1.1	PQL	ug/L	
	Di-n-butylphthalate	J	0.71	1.1	PQL	ug/L	

Method: 8330A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DN-SB-081111	4-AMINO-2,6-DINITROTOLUENE	J	0.41	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-033-SA6-SB-2.5-3.5	Nitrate-NO3	J	0.88	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA6-QC-081111	BORON	J	3.96	5.26	PQL	mg/Kg	J (all detects)
	SODIUM	J	87.4	105	PQL	mg/Kg	
	TIN	J	2.81	10.5	PQL	mg/Kg	
	Zirconium	J	2.33	5.26	PQL	mg/Kg	
SL-006-SA5DN-SB-4.0-5.0	TIN	J	3.14	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.31	5.65	PQL	mg/Kg	
SL-006-SA5DN-SB-9.0-10.0	TIN	J	3.03	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.59	5.45	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-033-SA6-SB-2.5-3.5	BORON	J	4.23	5.09	PQL	mg/Kg	J (all detects)
	SODIUM	J	68.4	102	PQL	mg/Kg	
	TIN	J	2.68	10.2	PQL	mg/Kg	
	Zirconium	J	1.62	5.09	PQL	mg/Kg	
SL-155-SA6-SB-4.0-5.0	BORON	J	4.32	5.24	PQL	mg/Kg	J (all detects)
	SODIUM	J	86.9	105	PQL	mg/Kg	
	TIN	J	2.78	10.5	PQL	mg/Kg	
	Zirconium	J	4.48	5.24	PQL	mg/Kg	
SL-174-SA6-SB-2.0-3.0	BORON	J	3.30	5.16	PQL	mg/Kg	J (all detects)
	TIN	J	2.81	10.3	PQL	mg/Kg	
	Zirconium	J	1.34	5.16	PQL	mg/Kg	
SL-207-SA5DN-SB-4.0-5.0	TIN	J	3.07	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.18	5.49	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA6-QC-081111	SELENIUM	J	0.103	0.417	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0421	0.104	PQL	mg/Kg	
SL-006-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.142	0.226	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.107	0.113	PQL	mg/Kg	
	SILVER	J	0.0487	0.113	PQL	mg/Kg	
SL-006-SA5DN-SB-9.0-10.0	CADMIUM	J	0.0976	0.110	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0241	0.110	PQL	mg/Kg	
SL-033-SA6-SB-2.5-3.5	SELENIUM	J	0.108	0.403	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0383	0.101	PQL	mg/Kg	
SL-155-SA6-SB-4.0-5.0	ANTIMONY	J	0.129	0.210	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0475	0.105	PQL	mg/Kg	
	SELENIUM	J	0.120	0.420	PQL	mg/Kg	
	SILVER	J	0.0466	0.105	PQL	mg/Kg	
SL-174-SA6-SB-2.0-3.0	ANTIMONY	J	0.0849	0.208	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.103	0.417	PQL	mg/Kg	
	SILVER	J	0.0241	0.104	PQL	mg/Kg	
SL-207-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.145	0.228	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0366	0.114	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA6-QC-081111	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)
SL-155-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.78	1.1	PQL	mg/Kg	J (all detects)
SL-174-SA6-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.51	1.0	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5DN-SB-4.0-5.0	MERCURY	J	0.0090	0.108	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-207-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	0.70	1.4	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5DN-SB-4.0-5.0	AROCLOR 1254	J	0.57	1.9	PQL	ug/Kg	J (all detects)
SL-033-SA6-SB-2.5-3.5	AROCLOR 1260	J	0.45	1.8	PQL	ug/Kg	J (all detects)
SL-155-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.93	1.8	PQL	ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-033-SA6-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	350	PQL	ug/Kg	J (all detects)
SL-155-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-octylphthalate	J J	63 49	350 180	PQL PQL	ug/Kg ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.9	20	PQL	ug/Kg	J (all detects)
SL-033-SA6-SB-2.5-3.5	CHRYSENE FLUORANTHENE PHENANTHRENE PYRENE	J J J J	0.87 1.2 0.99 0.85	1.7 1.7 1.7 1.7	PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)

LDC #: 26533K4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/7/11
SDG #: DE222 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MM
2nd Reviewer: A

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Ti >4X.
VII.	Duplicate Sample Analysis	NA	Sb, Zn <5X
VIII.	Laboratory Control Samples (LCS)	NA	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=B

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-006-SA5DN-SB-4.0-5.0	11	SL-155-SA6-SB-4.0-5.0DUP	21		31	
2	SL-006-SA5DN-SB-9.0-10.0	12		22		32	
3	SL-207-SA5DN-SB-4.0-5.0	13		23		33	
4	SL-155-SA6-SB-4.0-5.0	14		24		34	
5	SL-174-SA6-SB-2.0-3.0	15		25		35	
6	SL-033-SA6-SB-2.5-3.5	16		26		36	
7	DUP24-SA6-QC-081111	17		27		37	
8	EB-SA5DN-SB-081111	18		28		38	
9	SL-155-SA6-SB-4.0-5.0MS	19		29		39	
10	SL-155-SA6-SB-4.0-5.0MSD	20		30		40	

Notes:

LDC #: 26533K4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: ICP:100X, ICP/MS: 200X
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	1	5	6	7						
Zr			6.7	3.35	3.3	1.3	1.6	2.3						

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U". Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 26533K4

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 (>5X)

Analyte	Blank ID	Sample Identification											
	4	Action Level											
B	5.5	2.75											
Pb	0.11	0.055											

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".

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE222
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6374010BKG Matrix Spike Lab Sample ID: 6374011MS Matrix Spike Duplicate Lab Sample ID: 6374012MSD
% Solids for Sample: 94.4
Batch Id(s): P22408D, P22426B, P22411B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		20606.3780		24194.7667		23624.6261		207.7102	207.7102	MG/KG	1728		1453		2			20	P
Antimony	121	0.1290	B	0.4765		0.5123		1.2463	1.2586	MG/KG	28	N	30	N	7		75 - 125	20	MS
Arsenic	75	3.5031		5.5438		5.5588		2.0771	2.0977	MG/KG	98		98		0		75 - 125	20	MS
Barium	137	86.8015		104.5198		99.1358		10.3855	10.4883	MG/KG	171		118		5			20	MS
Beryllium	9	0.6056		1.4689		1.4552		0.8308	0.8391	MG/KG	104		101		1		75 - 125	20	MS
Boron		4.3180	B	218.0199		217.6647		207.7102	207.7102	MG/KG	103		103		0		84 - 115	20	P
Cadmium	111	0.0475	B	1.0815		1.1571		1.0386	1.0488	MG/KG	100		106		7		75 - 125	20	MS
Calcium		1960.7327		2492.0239		2556.6073		415.4204	415.4204	MG/KG	128		143		3			20	P
Chromium	52	18.5203		30.0349		29.5142		10.3855	10.4883	MG/KG	111		105		2		75 - 125	20	MS
Cobalt	59	4.3673		59.1766		58.4200		51.9276	52.4417	MG/KG	106		103		1		75 - 125	20	MS
Copper	63	6.3392		16.9699		16.5925		10.3855	10.4883	MG/KG	102		98		2		75 - 125	20	MS
Iron		20694.8481		20871.8781		21601.6721		103.8551	103.8551	MG/KG	170		873		3			20	P
Lead	208	4.6736		8.3915		8.1578		3.1157	3.1465	MG/KG	119		111		3		75 - 125	20	MS
Lithium		25.8705		131.0641		130.4140		103.8551	103.8551	MG/KG	101		101		0		82 - 114	20	P
Magnesium		4628.0385		4861.1893		5056.3881		207.7102	207.7102	MG/KG	112		206		4			20	P
Manganese		216.5852		256.3424		259.6980		51.9276	51.9276	MG/KG	77		83		1			20	P
Mercury		0.0074	U	0.1681		0.1684		0.1681	0.1700	MG/KG	100		99		0		65 - 135	20	CV
Molybdenum	98	0.5313		11.0917		10.9519		10.3855	10.4883	MG/KG	102		99		1		75 - 125	20	MS
Nickel	60	11.5309		22.7858		22.9904		10.3855	10.4883	MG/KG	108		109		1		75 - 125	20	MS
Phosphorus		220.0034		316.4029		322.9790		103.8551	103.8551	MG/KG	93		99		2		75 - 125	20	P
Potassium		1591.9628		2742.4799		2831.6955		1038.5510	1038.5510	MG/KG	111		119		3		75 - 125	20	P
Selenium	78	0.1199	B	2.4136		2.3032		2.0771	2.0977	MG/KG	110		104		5		75 - 125	20	MS
Silver	107	0.0466	B	11.1104		11.0023		10.3855	10.4883	MG/KG	107		104		1		75 - 125	20	MS
Sodium		86.8550	B	1111.8769		1097.7225		1038.5510	1038.5510	MG/KG	99		97		1		75 - 125	20	P
Strontium		16.9754		126.3418		125.0114		103.8551	103.8551	MG/KG	105		104		1		75 - 115	20	P
Thallium	203	0.2226		0.6487		0.6926		0.4154	0.4195	MG/KG	103		112		7		75 - 125	20	MS
Tin		2.7847	B	386.9537		381.8306		415.4204	415.4204	MG/KG	92		91		1		80 - 110	20	P
Titanium		1135.4411		1360.1882		1385.0906		103.8551	103.8551	MG/KG	216		240		2			20	P
Vanadium	51	36.1428		50.2866		49.1274		10.3855	10.4883	MG/KG	136	N	124		2		75 - 125	20	MS
Zinc	66	45.3096		56.2272		55.8399		10.3855	10.4883	MG/KG	105		100		1			20	MS
Zirconium		4.4796	B	106.4920		102.1342		103.8551	103.8551	MG/KG	98		94		4		75 - 125	20	P

Sb mat spike: 76% J/nJ

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:
N = Matrix Spike OOS, * = Duplicate OOS

SAMPLE DELIVERY GROUP

DE223

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 *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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-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 *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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 *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE223 **Laboratory: LL**

EDD Filename: PrepDE223_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: DUP-025-SA6-QC-081211 *Collected:* 8/12/2011 10:02:00 *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		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-038-SA6-SB-0.5-1.5 *Collected:* 8/12/2011 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	2.7		0.84	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-065-SA6-SB-1.5-2.5 *Collected:* 8/12/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		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-168-SA6-SB-2.0-3.0 *Collected:* 8/12/2011 11:58:00 *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		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-171-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 9:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-280-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 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
FLUORIDE	4.4		0.84	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: DUP-025-SA6-QC-081211 *Collected:* 8/12/2011 10:02:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.24	J	0.376	MDL	5.22	PQL	mg/Kg	J	Z, FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE223 **Laboratory: LL**

EDD Filename: PrepDE223_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **DUP-025-SA6-QC-081211** ***Collected:*** **8/12/2011 10:02:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	346		0.365	MDL	10.4	PQL	mg/Kg	J	E, Q
POTASSIUM	3330		11.8	MDL	52.2	PQL	mg/Kg	J	Q, Q, E
SODIUM	83.0	J	6.21	MDL	104	PQL	mg/Kg	J	Z
TIN	2.28	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.62	J	0.480	MDL	5.22	PQL	mg/Kg	J	Z

Sample ID: **SL-038-SA6-SB-0.5-1.5** ***Collected:*** **8/12/2011 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	3.21	J	0.374	MDL	5.19	PQL	mg/Kg	J	Z
PHOSPHORUS	308		0.363	MDL	10.4	PQL	mg/Kg	J	E, Q
POTASSIUM	2960		11.7	MDL	51.9	PQL	mg/Kg	J	Q, Q, E
TIN	2.68	J	0.332	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.45	J	0.477	MDL	5.19	PQL	mg/Kg	J	Z

Sample ID: **SL-065-SA6-SB-1.5-2.5** ***Collected:*** **8/12/2011 9:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.08	J	0.366	MDL	5.08	PQL	mg/Kg	J	Z
PHOSPHORUS	305		0.356	MDL	10.2	PQL	mg/Kg	J	E, Q
POTASSIUM	2790		11.5	MDL	50.8	PQL	mg/Kg	J	Q, Q, E
SODIUM	69.9	J	6.05	MDL	102	PQL	mg/Kg	J	Z
TIN	2.63	J	0.325	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.47	J	0.468	MDL	5.08	PQL	mg/Kg	J	Z

Sample ID: **SL-168-SA6-SB-2.0-3.0** ***Collected:*** **8/12/2011 11:58:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.50	J	0.372	MDL	5.16	PQL	mg/Kg	J	Z
PHOSPHORUS	441		0.361	MDL	10.3	PQL	mg/Kg	J	E, Q
POTASSIUM	3160		11.7	MDL	51.6	PQL	mg/Kg	J	Q, Q, E
TIN	2.48	J	0.330	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.82	J	0.475	MDL	5.16	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: DE223 **Laboratory: LL**

EDD Filename: PrepDE223_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-171-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 9:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.60	J	0.380	MDL	5.28	PQL	mg/Kg	J	Z, FD
PHOSPHORUS	272		0.370	MDL	10.6	PQL	mg/Kg	J	E, Q
POTASSIUM	2270		11.9	MDL	52.8	PQL	mg/Kg	J	Q, Q, E
SODIUM	101	J	6.28	MDL	106	PQL	mg/Kg	J	Z
TIN	2.82	J	0.338	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.06	J	0.486	MDL	5.28	PQL	mg/Kg	J	Z

Sample ID: SL-280-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 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
BORON	3.52	J	0.369	MDL	5.13	PQL	mg/Kg	J	Z
PHOSPHORUS	455		0.359	MDL	10.3	PQL	mg/Kg	J	E, Q
POTASSIUM	3620		11.6	MDL	51.3	PQL	mg/Kg	J	Q, Q, E
SODIUM	82.0	J	6.10	MDL	103	PQL	mg/Kg	J	Z
TIN	2.54	J	0.328	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.81	J	0.472	MDL	5.13	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP-025-SA6-QC-081211 *Collected:* 8/12/2011 10:02:00 *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	0.0635	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: DUP-025-SA6-QC-081211 *Collected:* 8/12/2011 10:02:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	11.6		0.0868	MDL	0.434	PQL	mg/Kg	J	Q

Sample ID: DUP-025-SA6-QC-081211 *Collected:* 8/12/2011 10:02:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0811	U	0.0811	MDL	0.219	PQL	mg/Kg	UJ	E, FD, Q
CADMIUM	0.112		0.0482	MDL	0.110	PQL	mg/Kg	J	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE223 **Laboratory: LL**

EDD Filename: PrepDE223_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP-025-SA6-QC-081211 ***Collected:*** 8/12/2011 10:02:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	17.9		0.131	MDL	0.438	PQL	mg/Kg	J	Q
LEAD	5.44		0.0112	MDL	0.219	PQL	mg/Kg	J	Q
SILVER	0.0598	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA6-SB-0.5-1.5 ***Collected:*** 8/12/2011 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	0.102	J	0.0596	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA6-SB-0.5-1.5 ***Collected:*** 8/12/2011 8:00:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	6.56		0.0822	MDL	0.411	PQL	mg/Kg	J	Q

Sample ID: SL-038-SA6-SB-0.5-1.5 ***Collected:*** 8/12/2011 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	0.0760	U	0.0760	MDL	0.206	PQL	mg/Kg	UJ	E, Q
CADMIUM	0.0894	J	0.0452	MDL	0.103	PQL	mg/Kg	J	Z
CHROMIUM	12.2		0.123	MDL	0.411	PQL	mg/Kg	J	Q
LEAD	4.23		0.0105	MDL	0.206	PQL	mg/Kg	J	Q
SILVER	0.0294	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-065-SA6-SB-1.5-2.5 ***Collected:*** 8/12/2011 9:40:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.117	J	0.0613	MDL	0.423	PQL	mg/Kg	J	Z

Sample ID: SL-065-SA6-SB-1.5-2.5 ***Collected:*** 8/12/2011 9:40:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	6.55		0.0821	MDL	0.411	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: DE223 **Laboratory: LL**

EDD Filename: PrepDE223_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-065-SA6-SB-1.5-2.5 *Collected:* 8/12/2011 9:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0782	U	0.0782	MDL	0.211	PQL	mg/Kg	UJ	E, Q
CADMIUM	0.0981	J	0.0465	MDL	0.106	PQL	mg/Kg	J	Z
CHROMIUM	12.2		0.127	MDL	0.423	PQL	mg/Kg	J	Q
LEAD	4.84		0.0108	MDL	0.211	PQL	mg/Kg	J	Q
SILVER	0.0186	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA6-SB-2.0-3.0 *Collected:* 8/12/2011 11:58:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.108	J	0.0599	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA6-SB-2.0-3.0 *Collected:* 8/12/2011 11:58:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	9.78		0.0810	MDL	0.405	PQL	mg/Kg	J	Q

Sample ID: SL-168-SA6-SB-2.0-3.0 *Collected:* 8/12/2011 11:58:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0764	U	0.0764	MDL	0.206	PQL	mg/Kg	UJ	E, Q
CHROMIUM	16.0		0.124	MDL	0.413	PQL	mg/Kg	J	Q
LEAD	5.58		0.0105	MDL	0.206	PQL	mg/Kg	J	Q
SILVER	0.0386	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-171-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 9:59:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.105	J	0.0624	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-171-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 9:59:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	10.6		0.0853	MDL	0.426	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: DE223 **Laboratory: LL**

EDD Filename: PrepDE223_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS
Method: 6020 **Matrix: SO**

Sample ID: SL-171-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 9:59:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0803	J	0.0797	MDL	0.215	PQL	mg/Kg	J	Z, E, FD, Q
CADMIUM	0.0563	J	0.0474	MDL	0.108	PQL	mg/Kg	J	Z, FD
CHROMIUM	20.1		0.129	MDL	0.431	PQL	mg/Kg	J	Q
LEAD	5.49		0.0110	MDL	0.215	PQL	mg/Kg	J	Q
SILVER	0.0499	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-280-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 1:50:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0578	MDL	0.398	PQL	mg/Kg	J	Z

Sample ID: SL-280-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 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
COPPER	13.8		0.0812	MDL	0.406	PQL	mg/Kg	J	Q

Sample ID: SL-280-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 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	0.0737	U	0.0737	MDL	0.199	PQL	mg/Kg	UJ	E, Q
CHROMIUM	16.4		0.120	MDL	0.398	PQL	mg/Kg	J	Q
LEAD	5.54		0.0102	MDL	0.199	PQL	mg/Kg	J	Q
SILVER	0.0398	J	0.0141	MDL	0.0996	PQL	mg/Kg	J	Z

Method Category: METALS
Method: 7199 **Matrix: SO**

Sample ID: DUP-025-SA6-QC-081211 *Collected:* 8/12/2011 10:02:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.42	J	0.22	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: DE223 **Laboratory: LL**

EDD Filename: PrepDE223_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-038-SA6-SB-0.5-1.5 *Collected:* 8/12/2011 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	0.32	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-065-SA6-SB-1.5-2.5 *Collected:* 8/12/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.35	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA6-SB-2.0-3.0 *Collected:* 8/12/2011 11:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.53	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-171-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 9:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.48	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-280-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 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	0.54	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-280-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 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	0.0241	J	0.0072	MDL	0.103	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: DE223 **Laboratory: LL**

EDD Filename: PrepDE223_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: DUP-025-SA6-QC-081211 *Collected:* 8/12/2011 10:02:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.44	U	0.44	MDL	1.3	PQL	mg/Kg	UJ	FD

Sample ID: SL-065-SA6-SB-1.5-2.5 *Collected:* 8/12/2011 9:40:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.61	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-171-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 9:59:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.84	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z, FD

Sample ID: SL-171-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 9:59:00 *Analysis Type:* REA2 *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

Sample ID: SL-280-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 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
EFH (C15-C20)	1.1	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: DUP-025-SA6-QC-081211 *Collected:* 8/12/2011 10:02:00 *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	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	FD

Sample ID: SL-038-SA6-SB-0.5-1.5 *Collected:* 8/12/2011 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
Aroclor 5460	5.8	J	2.1	MDL	6.9	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: DE223 **Laboratory: LL**

EDD Filename: PrepDE223_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-065-SA6-SB-1.5-2.5 *Collected:* 8/12/2011 9:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.3	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.78	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-168-SA6-SB-2.0-3.0 *Collected:* 8/12/2011 11:58:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.1	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-171-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 9:59:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.45	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, FD

Sample ID: SL-280-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 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 1254	0.36	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: DUP-025-SA6-QC-081211 *Collected:* 8/12/2011 10:02:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	370	U	370	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	UJ	L
PENTACHLOROPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-038-SA6-SB-0.5-1.5 *Collected:* 8/12/2011 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
2,4-DINITROPHENOL	350	U	350	MDL	1000	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE223 **Laboratory: LL**

EDD Filename: PrepDE223_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-038-SA6-SB-0.5-1.5 *Collected:* 8/12/2011 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
PENTACHLOROPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-065-SA6-SB-1.5-2.5 *Collected:* 8/12/2011 9:40:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	350	U	350	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	530	PQL	ug/Kg	UJ	L
PENTACHLOROPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L

Sample ID: SL-168-SA6-SB-2.0-3.0 *Collected:* 8/12/2011 11:58:00 *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	UJ	L
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
PENTACHLOROPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-171-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 9:59:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	370	U	370	MDL	1100	PQL	ug/Kg	UJ	Q, L
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L
BENZIDINE	1300	U	1300	MDL	3700	PQL	ug/Kg	R	Q, Q
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	UJ	L
PENTACHLOROPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-280-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 1:50:00 *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	UJ	L
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
PENTACHLOROPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE223 **Laboratory:** LL

EDD Filename: PrepDE223_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: DUP-025-SA6-QC-081211 ***Collected:*** 8/12/2011 10:02:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Diethylphthalate	13	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-038-SA6-SB-0.5-1.5 ***Collected:*** 8/12/2011 8:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.73	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.2	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	0.56	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
Diethylphthalate	7.4	J	6.2	MDL	19	PQL	ug/Kg	J	Z
FLUORANTHENE	0.92	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.93	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-065-SA6-SB-1.5-2.5 ***Collected:*** 8/12/2011 9:40:00 ***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	1.2	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.77	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Diethylphthalate	14	J	6.3	MDL	19	PQL	ug/Kg	J	Z
NAPHTHALENE	1.3	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-168-SA6-SB-2.0-3.0 ***Collected:*** 8/12/2011 11:58:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.96	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	0.88	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.3	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	0.39	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
Diethylphthalate	7.4	J	6.3	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-171-SA6-SB-4.0-5.0 ***Collected:*** 8/12/2011 9:59:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Diethylphthalate	11	J	6.6	MDL	20	PQL	ug/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE223 **Laboratory: LL**

EDD Filename: PrepDE223_v2 **eQAPP Name: CDM_SSFL_110509**

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

Sample ID: SL-280-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 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
Diethylphthalate	7.9	J	6.3	MDL	19	PQL	ug/Kg	J	Z

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

Sample ID: SL-171-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 9:59:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.7	U	1.7	MDL	3.9	PQL	mg/Kg	UJ	Q
p-Terphenyl	1.7	U	1.7	MDL	3.9	PQL	mg/Kg	UJ	Q

Method Category: VOA
Method: 8260B **Matrix: SO**

Sample ID: SL-065-SA6-SB-1.5-2.5 *Collected:* 8/12/2011 9:40:00 *Analysis Type:* RES *Dilution:* 0.94

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHYLBENZENE	0.07	J	0.06	MDL	4.0	PQL	ug/Kg	J	Z
m,p-Xylene	0.21	J	0.17	MDL	4.0	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	0.96	J	0.24	MDL	4.0	PQL	ug/Kg	U	B
TOLUENE	0.38	J	0.08	MDL	4.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE223 **Laboratory: LL**

EDD Filename: PrepDE223_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DE223 **Laboratory: LL**

EDD Filename: PrepDE223_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

Data Qualifier Summary

Lab Reporting Batch ID: DE223 **Laboratory: LL**

EDD Filename: PrepDE223_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE223

Method Blank Outlier Report

Lab Reporting Batch ID: DE223 **Laboratory: LL**

EDD Filename: DE223_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23408CB220737	8/23/2011 7:37:00 AM	CALCIUM	5.69 mg/Kg	DUP-025-SA6-QC-081211
		IRON	5.52 mg/Kg	SL-038-SA6-SB-0.5-1.5
		MAGNESIUM	0.614 mg/Kg	SL-065-SA6-SB-1.5-2.5
		MANGANESE	0.0429 mg/Kg	SL-168-SA6-SB-2.0-3.0
		PHOSPHORUS	1.19 mg/Kg	SL-171-SA6-SB-4.0-5.0
		TIN	1.62 mg/Kg	SL-280-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
DUP-025-SA6-QC-081211(RES)	TIN	2.28 mg/Kg	2.28U mg/Kg
SL-038-SA6-SB-0.5-1.5(RES)	TIN	2.68 mg/Kg	2.68U mg/Kg
SL-065-SA6-SB-1.5-2.5(RES)	TIN	2.63 mg/Kg	2.63U mg/Kg
SL-168-SA6-SB-2.0-3.0(RES)	TIN	2.48 mg/Kg	2.48U mg/Kg
SL-171-SA6-SB-4.0-5.0(RES)	TIN	2.82 mg/Kg	2.82U mg/Kg
SL-280-SA6-SB-4.0-5.0(RES)	TIN	2.54 mg/Kg	2.54U mg/Kg

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB42B210047A	8/19/2011 12:47:00 AM	METHYLENE CHLORIDE	0.54 ug/Kg	SL-065-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-065-SA6-SB-1.5-2.5(RES)	METHYLENE CHLORIDE	0.96 ug/Kg	4.0U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE223 **Laboratory: LL**

EDD Filename: DE223_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-171-SA6-SB-4.0-5.0MSD (SL-171-SA6-SB-4.0-5.0)	Isopropanol METHANOL	- -	- -	12.00-149.00 43.00-138.00	28 (20.00) 29 (20.00)	Isopropanol METHANOL	J (all detects)
SL-171-SA6-SB-4.0-5.0MS **SL-171-SA6-SB-4.0-5.0MSD** (SL-171-SA6-SB-4.0-5.0)	m-Terphenyl p-Terphenyl	70 74	67 71	75.00-125.00 75.00-125.00	- -	m-Terphenyl p-Terphenyl	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-171-SA6-SB-4.0-5.0MS (SL-171-SA6-SB-4.0-5.0)	EFH (C15-C20)	130	-	49.00-123.00	-	EFH (C15-C20)	J(all detects)
SL-171-SA6-SB-4.0-5.0MS (SL-171-SA6-SB-4.0-5.0)	DIETHYLENE GLYCOL	51	-	59.00-109.00	-	DIETHYLENE GLYCOL	J(all detects) UJ(all non-detects)
SL-171-SA6-SB-4.0-5.0MSD (SL-171-SA6-SB-4.0-5.0)	ETHYLENE GLYCOL Propylene glycol	- -	- -	63.00-107.00 63.00-107.00	22 (20.00) 23 (20.00)	ETHYLENE GLYCOL Propylene glycol	J(all detects)
SL-171-SA6-SB-4.0-5.0MS **SL-171-SA6-SB-4.0-5.0MSD** (SL-171-SA6-SB-4.0-5.0)	DIETHYLENE GLYCOL	49	56	59.00-109.00	-	DIETHYLENE GLYCOL	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-171-SA6-SB-4.0-5.0MS (DUP-025-SA6-QC-081211 SL -038-SA6-SB-0.5-1.5 SL -065-SA6-SB-1.5-2.5 SL -168-SA6-SB-2.0-3.0 SL -171-SA6-SB-4.0-5.0 SL -280-SA6-SB-4.0-5.0)	LEAD	131	-	75.00-125.00	-	LEAD	J(all detects)
SL-171-SA6-SB-4.0-5.0MS **SL-171-SA6-SB-4.0-5.0MSD** (DUP-025-SA6-QC-081211 SL -038-SA6-SB-0.5-1.5 SL -065-SA6-SB-1.5-2.5 SL -168-SA6-SB-2.0-3.0 SL -171-SA6-SB-4.0-5.0 SL -280-SA6-SB-4.0-5.0)	ANTIMONY	28	19	75.00-125.00	29 (20.00)	ANTIMONY	J(all detects) UJ(all non-detects) post spike = 98%
SL-171-SA6-SB-4.0-5.0MS **SL-171-SA6-SB-4.0-5.0MSD** (DUP-025-SA6-QC-081211 SL -038-SA6-SB-0.5-1.5 SL -065-SA6-SB-1.5-2.5 SL -168-SA6-SB-2.0-3.0 SL -171-SA6-SB-4.0-5.0 SL -280-SA6-SB-4.0-5.0)	CHROMIUM ZINC	62 -	- 45	75.00-125.00 75.00-125.00	- -	CHROMIUM ZINC	J(all detects) UJ(all non-detects) Zn, No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE223 **Laboratory: LL**

EDD Filename: DE223_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-171-SA6-SB-4.0-5.0MSD (DUP-025-SA6-QC-081211 SL-038-SA6-SB-0.5-1.5 SL-065-SA6-SB-1.5-2.5 SL-168-SA6-SB-2.0-3.0 SL-171-SA6-SB-4.0-5.0 SL-280-SA6-SB-4.0-5.0)	BARIUM	-	63	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-171-SA6-SB-4.0-5.0MS **SL-171-SA6-SB-4.0-5.0MSD** (DUP-025-SA6-QC-081211 SL-038-SA6-SB-0.5-1.5 SL-065-SA6-SB-1.5-2.5 SL-168-SA6-SB-2.0-3.0 SL-171-SA6-SB-4.0-5.0 SL-280-SA6-SB-4.0-5.0)	ALUMINUM CALCIUM MAGNESIUM TITANIUM	3118 - 268 175	3416 169 169 157	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM CALCIUM MAGNESIUM TITANIUM	No Qual, >4x
SL-171-SA6-SB-4.0-5.0MS **SL-171-SA6-SB-4.0-5.0MSD** (DUP-025-SA6-QC-081211 SL-038-SA6-SB-0.5-1.5 SL-065-SA6-SB-1.5-2.5 SL-168-SA6-SB-2.0-3.0 SL-171-SA6-SB-4.0-5.0 SL-280-SA6-SB-4.0-5.0)	IRON MANGANESE PHOSPHORUS	-850 - -	800 11 10	75.00-125.00 75.00-125.00 75.00-125.00	- - 24 (20.00)	IRON MANGANESE PHOSPHORUS	J(all detects) UJ(all non-detects) Fe, Mn, No Qual, >4x P, post spike = 93%
SL-171-SA6-SB-4.0-5.0MS **SL-171-SA6-SB-4.0-5.0MSD** (DUP-025-SA6-QC-081211 SL-038-SA6-SB-0.5-1.5 SL-065-SA6-SB-1.5-2.5 SL-168-SA6-SB-2.0-3.0 SL-171-SA6-SB-4.0-5.0 SL-280-SA6-SB-4.0-5.0)	POTASSIUM	130	55	75.00-125.00	23 (20.00)	POTASSIUM	J(all detects) UJ(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-171-SA6-SB-4.0-5.0MS (DUP-025-SA6-QC-081211 SL-038-SA6-SB-0.5-1.5 SL-065-SA6-SB-1.5-2.5 SL-168-SA6-SB-2.0-3.0 SL-171-SA6-SB-4.0-5.0 SL-280-SA6-SB-4.0-5.0)	FLUORIDE	58	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE223 **Laboratory: LL**

EDD Filename: DE223_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-171-SA6-SB-4.0-5.0MSD (SL-171-SA6-SB-4.0-5.0)	4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID	- -	- -	11.00-126.00 10.00-173.00	40 (30.00) 61 (30.00)	4,6-DINITRO-2-METHYLPHEN BENZOIC ACID	J(all detects)
SL-171-SA6-SB-4.0-5.0MS **SL-171-SA6-SB-4.0-5.0MSD** (SL-171-SA6-SB-4.0-5.0)	BENZIDINE	21	0	35.00-141.00	200 (30.00)	BENZIDINE	J(all detects) R(all non-detects)
SL-171-SA6-SB-4.0-5.0MSD (SL-171-SA6-SB-4.0-5.0)	2,4-DINITROPHENOL	-	18	20.00-143.00	44 (30.00)	2,4-DINITROPHENOL	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-171-SA6-SB-4.0-5.0MS (SL-171-SA6-SB-4.0-5.0)	Diethylphthalate	66	-	70.00-136.00	-	Diethylphthalate	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-171-SA6-SB-4.0-5.0MS **SL-171-SA6-SB-4.0-5.0MSD** (DUP-025-SA6-QC-081211 SL-038-SA6-SB-0.5-1.5 SL-065-SA6-SB-1.5-2.5 SL-168-SA6-SB-2.0-3.0 SL-171-SA6-SB-4.0-5.0 SL-280-SA6-SB-4.0-5.0)	COPPER	140	143	75.00-125.00	-	COPPER	J(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE223 **Laboratory: LL**

EDD Filename: DE223_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-171-SA6-SB-4.0-5.0DUP (DUP-025-SA6-QC-081211 SL-038-SA6-SB-0.5-1.5 SL-065-SA6-SB-1.5-2.5 SL-168-SA6-SB-2.0-3.0 SL-171-SA6-SB-4.0-5.0 SL-280-SA6-SB-4.0-5.0)	FLUORIDE	46	20.00	No Qual, OK by Difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-171-SA6-SB-4.0-5.0DUP (DUP-025-SA6-QC-081211 SL-038-SA6-SB-0.5-1.5 SL-065-SA6-SB-1.5-2.5 SL-168-SA6-SB-2.0-3.0 SL-171-SA6-SB-4.0-5.0 SL-280-SA6-SB-4.0-5.0)	BORON Zirconium	39 33	20.00 20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-171-SA6-SB-4.0-5.0DUP (DUP-025-SA6-QC-081211 SL-038-SA6-SB-0.5-1.5 SL-065-SA6-SB-1.5-2.5 SL-168-SA6-SB-2.0-3.0 SL-171-SA6-SB-4.0-5.0 SL-280-SA6-SB-4.0-5.0)	ANTIMONY	200	20.00	No qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE223 **Laboratory: LL**

EDD Filename: DE223_v2 **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-038-SA6-SB-0.5-1.5 SL -168-SA6-SB-2.0-3.0)	ETHYLENE GLYCOL	123	-	65.00-122.00	-	ETHYLENE GLYCOL	J (all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23426AQ220631A (DUP-025-SA6-QC-081211 SL -038-SA6-SB-0.5-1.5 SL -065-SA6-SB-1.5-2.5 SL -168-SA6-SB-2.0-3.0 SL -171-SA6-SB-4.0-5.0 SL -280-SA6-SB-4.0-5.0)	ANTIMONY	56	-	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
P23408CQ220741 (DUP-025-SA6-QC-081211 SL -038-SA6-SB-0.5-1.5 SL -065-SA6-SB-1.5-2.5 SL -168-SA6-SB-2.0-3.0 SL -171-SA6-SB-4.0-5.0 SL -280-SA6-SB-4.0-5.0)	ALUMINUM IRON TITANIUM	140 132 169	- - -	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
P6LALCSQ261134 (DUP-025-SA6-QC-081211 SL -038-SA6-SB-0.5-1.5 SL -065-SA6-SB-1.5-2.5 SL -168-SA6-SB-2.0-3.0 SL -171-SA6-SB-4.0-5.0 SL -280-SA6-SB-4.0-5.0)	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID PENTACHLOROPHENOL	12 24 36 50	- - - -	18.00-133.00 46.00-120.00 62.00-113.00 51.00-117.00	- - - -	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHEN BENZOIC ACID PENTACHLOROPHENOL	J(all detects) UJ(all non-detects)

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE223 **Laboratory: LL**

EDD Filename: DE223_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-171-SA6-SB-4.0-5.0	DUP-025-SA6-QC-081211			
MOISTURE	9.8	8.7	12		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-171-SA6-SB-4.0-5.0	DUP-025-SA6-QC-081211			
FLUORIDE	1.5	1.8	18	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-171-SA6-SB-4.0-5.0	DUP-025-SA6-QC-081211			
ALUMINUM	23100	20200	13	50.00	
CALCIUM	2220	1920	14	50.00	
IRON	24100	25100	4	50.00	
LITHIUM	30.8	26.4	15	50.00	
MAGNESIUM	4940	4810	3	50.00	
MANGANESE	251	271	8	50.00	
PHOSPHORUS	272	346	24	50.00	No Qualifiers Applied
POTASSIUM	2270	3330	38	50.00	
SODIUM	101	83.0	20	50.00	
STRONTIUM	19.7	18.4	7	50.00	
TIN	2.82	2.28	21	50.00	
TITANIUM	1260	1190	6	50.00	
Zirconium	2.06	2.62	24	50.00	
BORON	1.60	3.24	68	50.00	J(all detects)

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-171-SA6-SB-4.0-5.0	DUP-025-SA6-QC-081211			
ARSENIC	5.36	4.67	14	50.00	
BARIUM	101	95.3	6	50.00	
BERYLLIUM	0.702	0.623	12	50.00	
CHROMIUM	20.1	17.9	12	50.00	
COBALT	5.87	6.35	8	50.00	
COPPER	10.6	11.6	9	50.00	
LEAD	5.49	5.44	1	50.00	
MOLYBDENUM	0.672	0.689	2	50.00	No Qualifiers Applied
NICKEL	13.6	14.2	4	50.00	
SELENIUM	0.105	0.123	16	50.00	
SILVER	0.0499	0.0598	18	50.00	
THALLIUM	0.298	0.288	3	50.00	
VANADIUM	39.8	38.2	4	50.00	
ZINC	47.0	53.3	13	50.00	
ANTIMONY	0.0803	0.219 U	200	50.00	J(all detects)
CADMIUM	0.0563	0.112	66	50.00	UJ(all non-detects)

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE223 **Laboratory: LL**

EDD Filename: DE223_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-171-SA6-SB-4.0-5.0	DUP-025-SA6-QC-081211			
HEXAVALENT CHROMIUM	0.48	0.42	13	50.00	No Qualifiers Applied

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-171-SA6-SB-4.0-5.0	DUP-025-SA6-QC-081211			
EFH (C30-C40)	0.84	1.3 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-171-SA6-SB-4.0-5.0	DUP-025-SA6-QC-081211			
AROCLOR 1254	0.45	1.9 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-171-SA6-SB-4.0-5.0	DUP-025-SA6-QC-081211			
Diethylphthalate	11	13	17	50.00	No Qualifiers Applied

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-171-SA6-SB-4.0-5.0	DUP-025-SA6-QC-081211			
PH	6.72	6.74	0	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE223 **Laboratory: LL**

EDD Filename: DE223_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-065-SA6-SB-1.5-2.5	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
DUP-025-SA6-QC-081211	BORON	J	3.24	5.22	PQL	mg/Kg	J (all detects)
	SODIUM	J	83.0	104	PQL	mg/Kg	
	TIN	J	2.28	10.4	PQL	mg/Kg	
	Zirconium	J	2.62	5.22	PQL	mg/Kg	
SL-038-SA6-SB-0.5-1.5	BORON	J	3.21	5.19	PQL	mg/Kg	J (all detects)
	TIN	J	2.68	10.4	PQL	mg/Kg	
	Zirconium	J	1.45	5.19	PQL	mg/Kg	
SL-065-SA6-SB-1.5-2.5	BORON	J	3.08	5.08	PQL	mg/Kg	J (all detects)
	SODIUM	J	69.9	102	PQL	mg/Kg	
	TIN	J	2.63	10.2	PQL	mg/Kg	
	Zirconium	J	1.47	5.08	PQL	mg/Kg	
SL-168-SA6-SB-2.0-3.0	BORON	J	3.50	5.16	PQL	mg/Kg	J (all detects)
	TIN	J	2.48	10.3	PQL	mg/Kg	
	Zirconium	J	1.82	5.16	PQL	mg/Kg	
SL-171-SA6-SB-4.0-5.0	BORON	J	1.60	5.28	PQL	mg/Kg	J (all detects)
	SODIUM	J	101	106	PQL	mg/Kg	
	TIN	J	2.82	10.6	PQL	mg/Kg	
	Zirconium	J	2.06	5.28	PQL	mg/Kg	
SL-280-SA6-SB-4.0-5.0	BORON	J	3.52	5.13	PQL	mg/Kg	J (all detects)
	SODIUM	J	82.0	103	PQL	mg/Kg	
	TIN	J	2.54	10.3	PQL	mg/Kg	
	Zirconium	J	1.81	5.13	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-025-SA6-QC-081211	SELENIUM	J	0.123	0.438	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0598	0.110	PQL	mg/Kg	
SL-038-SA6-SB-0.5-1.5	CADMIUM	J	0.0894	0.103	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.102	0.411	PQL	mg/Kg	
	SILVER	J	0.0294	0.103	PQL	mg/Kg	
SL-065-SA6-SB-1.5-2.5	CADMIUM	J	0.0981	0.106	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.117	0.423	PQL	mg/Kg	
	SILVER	J	0.0186	0.106	PQL	mg/Kg	
SL-168-SA6-SB-2.0-3.0	SELENIUM	J	0.108	0.413	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0386	0.103	PQL	mg/Kg	
SL-171-SA6-SB-4.0-5.0	ANTIMONY	J	0.0803	0.215	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0563	0.108	PQL	mg/Kg	
	SELENIUM	J	0.105	0.431	PQL	mg/Kg	
	SILVER	J	0.0499	0.108	PQL	mg/Kg	
SL-280-SA6-SB-4.0-5.0	SELENIUM	J	0.121	0.398	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0398	0.0996	PQL	mg/Kg	

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

Reporting Limit Outliers

Lab Reporting Batch ID: DE223 **Laboratory: LL**

EDD Filename: DE223_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-025-SA6-QC-081211	HEXAVALENT CHROMIUM	J	0.42	1.1	PQL	mg/Kg	J (all detects)
SL-038-SA6-SB-0.5-1.5	HEXAVALENT CHROMIUM	J	0.32	1.0	PQL	mg/Kg	J (all detects)
SL-065-SA6-SB-1.5-2.5	HEXAVALENT CHROMIUM	J	0.35	1.1	PQL	mg/Kg	J (all detects)
SL-168-SA6-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.53	1.0	PQL	mg/Kg	J (all detects)
SL-171-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.48	1.1	PQL	mg/Kg	J (all detects)
SL-280-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.54	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-280-SA6-SB-4.0-5.0	MERCURY	J	0.0241	0.103	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-065-SA6-SB-1.5-2.5	EFH (C15-C20)	J	0.61	1.3	PQL	mg/Kg	J (all detects)
SL-171-SA6-SB-4.0-5.0	EFH (C30-C40)	J	0.84	1.3	PQL	mg/Kg	J (all detects)
SL-280-SA6-SB-4.0-5.0	EFH (C15-C20)	J	1.1	1.3	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-038-SA6-SB-0.5-1.5	Aroclor 5460	J	5.8	6.9	PQL	ug/Kg	J (all detects)
SL-065-SA6-SB-1.5-2.5	AROCLOR 1254 AROCLOR 1260	J J	1.3 0.78	1.8 1.8	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-168-SA6-SB-2.0-3.0	AROCLOR 1254	J	1.1	1.8	PQL	ug/Kg	J (all detects)
SL-171-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.45	1.9	PQL	ug/Kg	J (all detects)
SL-280-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.36	1.8	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE223 **Laboratory: LL**

EDD Filename: DE223_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-065-SA6-SB-1.5-2.5	ETHYLBENZENE	J	0.07	4.0	PQL	ug/Kg	J (all detects)
	m,p-Xylene	J	0.21	4.0	PQL	ug/Kg	
	METHYLENE CHLORIDE	J	0.96	4.0	PQL	ug/Kg	
	TOLUENE	J	0.38	4.0	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-025-SA6-QC-081211	Diethylphthalate	J	13	20	PQL	ug/Kg	J (all detects)
SL-038-SA6-SB-0.5-1.5	ANTHRACENE	J	0.73	1.7	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.2	1.7	PQL	ug/Kg	
	CHRYSENE	J	0.56	1.7	PQL	ug/Kg	
	Diethylphthalate	J	7.4	19	PQL	ug/Kg	
	FLUORANTHENE	J	0.92	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.93	1.7	PQL	ug/Kg	
SL-065-SA6-SB-1.5-2.5	BENZO(B)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.77	1.8	PQL	ug/Kg	
	Diethylphthalate	J	14	19	PQL	ug/Kg	
	NAPHTHALENE	J	1.3	1.8	PQL	ug/Kg	
SL-168-SA6-SB-2.0-3.0	2-METHYLNAPHTHALENE	J	0.96	1.7	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	0.88	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	19	PQL	ug/Kg	
	CHRYSENE	J	0.39	1.7	PQL	ug/Kg	
	Diethylphthalate	J	7.4	19	PQL	ug/Kg	
SL-171-SA6-SB-4.0-5.0	Diethylphthalate	J	11	20	PQL	ug/Kg	J (all detects)
SL-280-SA6-SB-4.0-5.0	Diethylphthalate	J	7.9	19	PQL	ug/Kg	J (all detects)

LDC #: 26533L4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/7/11
SDG #: DE223 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
2nd Reviewer: C

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	Na found by ICB/CCB
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	Al, Ba, Ca, Fe, Mg, Mn, Ti, Zn >4X
VII.	Duplicate Sample Analysis	A	Sb, B, Tl <5X
VIII.	Laboratory Control Samples (LCS)	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	-	
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-038-SA6-SB-0.5-1.5	11		21		31	
2	SL-065-SA6-SB-1.5-2.5	12		22		32	
3	SL-168-SA6-SB-2.0-3.0	13		23		33	
4	SL-171-SA6-SB-4.0-5.0	14		24		34	
5	SL-280-SA6-SB-4.0-5.0	15		25		35	
6	DUP-025-SA6-QC-081211	16		26		36	
7	SL-171-SA6-SB-4.0-5.0MS	17		27		37	
8	SL-171-SA6-SB-4.0-5.0MSD	18		28		38	
9	SL-171-SA6-SB-4.0-5.0DUP	19		29		39	
10		20		30		40	

Notes: _____

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE223
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6375323BKG Matrix Spike Lab Sample ID: 6375324MS Matrix Spike Duplicate Lab Sample ID: 6375325MSD
% Solids for Sample: 90.2
Batch Id(s): P23408C, P23426A, P24126A, P23411B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		23134.2752		29719.2757		30708.5765		211.1709	221.7295	MG/KG	3118		3416		3			20	P
Antimony	121	0.0803	B	0.4485		0.3359		1.3043	1.3172	MG/KG	28	N	19	N	29	*	75 - 125	20	MS
Arsenic	75	5.3603		7.9931		8.1008		2.1738	2.1953	MG/KG	121		125		1		75 - 125	20	MS
Barium	137	100.9192		113.6255		107.7913		10.8691	10.9767	MG/KG	117		63		5			20	MS
Beryllium	9	0.7020		1.6834		1.6384		0.8695	0.8781	MG/KG	113		107		3		75 - 125	20	MS
Boron		1.5975	B	204.4272		218.5366		211.1709	221.7295	MG/KG	96		98		7		84 - 115	20	P
Cadmium	111	0.0563	B	1.0967		1.1146		1.0869	1.0977	MG/KG	96		96		2		75 - 125	20	MS
Calcium		2217.4005		2665.5063		2966.9035		422.3419	443.4590	MG/KG	106		169		11			20	P
Chromium	52	20.1472		26.9336		29.7249		10.8691	10.9767	MG/KG	62	N	87		10		75 - 125	20	MS
Cobalt	59	5.8726		58.9322		60.0426		54.3455	54.8835	MG/KG	98		99		2		75 - 125	20	MS
Copper	63	10.6132		25.8684		26.1510		10.8691	10.8691	MG/KG	140	N	143	N	1		75 - 125	20	MS
Iron		24107.2907		23208.9061		24993.8525		105.5855	110.8647	MG/KG	-851		800		7			20	P
Lead	208	5.4916		9.7604		9.5783		3.2607	3.2930	MG/KG	131	N	124		2		75 - 125	20	MS
Lithium		30.7940		132.8952		144.7805		105.5855	110.8647	MG/KG	97		103		9		82 - 114	20	P
Magnesium		4936.3774		5503.3333		5311.7805		211.1709	221.7295	MG/KG	268		169		4			20	P
Manganese		250.9091		306.6667		256.8016		52.7927	55.4324	MG/KG	106		11		18			20	P
Mercury		0.0078	U	0.1868		0.1901		0.1779	0.1761	MG/KG	105		108		2		65 - 135	20	CV
Molybdenum	98	0.6716		11.0560		11.0579		10.8691	10.9767	MG/KG	96		95		0		75 - 125	20	MS
Nickel	60	13.5987		25.2380		24.6098		10.8691	10.9767	MG/KG	107		100		3		75 - 125	20	MS
Phosphorus		271.6704		360.6504		282.8337		105.5855	110.8647	MG/KG	84		10	N	24	*	75 - 125	20	P
Potassium		2267.2886		3637.5948		2879.8370		1055.8547	1108.6475	MG/KG	130	N	55	N	23	*	75 - 125	20	P
Selenium	78	0.1050	B	2.1521		2.3600		2.1738	2.1953	MG/KG	94		103		9		75 - 125	20	MS
Silver	107	0.0499	B	10.9126		11.3280		10.8691	10.9767	MG/KG	100		103		4		75 - 125	20	MS
Sodium		101.2290	B	1085.1357		1136.8836		1055.8547	1108.6475	MG/KG	93		93		5		75 - 125	20	P
Strontium		19.7160		122.6280		129.2572		105.5855	110.8647	MG/KG	97		99		5		75 - 115	20	P
Thallium	203	0.2979		0.6691		0.6441		0.4348	0.4391	MG/KG	85		79		4		75 - 125	20	MS
Tin		2.8191	B	369.7593		391.8093		422.3419	443.4590	MG/KG	87		88		6		80 - 110	20	P
Titanium		1256.5231		1441.2607		1430.1718		105.5855	110.8647	MG/KG	175		157		1			20	P
Vanadium	51	39.7606		50.3456		51.1954		10.8691	10.9767	MG/KG	97		104		2		75 - 125	20	MS
Zinc	66	47.0153		58.2149		51.9857		10.8691	10.9767	MG/KG	103		45		11			20	MS
Zirconium		2.0557	B	103.6934		109.4146		105.5855	110.8647	MG/KG	96		97		5		75 - 125	20	P

J/u

J/u

Sb.: post spike = 98%, P = 93%

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

SAMPLE DELIVERY GROUP

DE224

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
15-Aug-2011	TB-081511	6377536	TB	5030B	8015M	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	3050B	6010B	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	3050B	6020	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	3060A	7199	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	3550B	8015M	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	3550B	8082	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	3550B	8270C	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	3550B	8270C SIM	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	5035	8015M	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	METHOD	300.0	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	METHOD	314.0	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	METHOD	7471A	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	METHOD	8015B	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	METHOD	8015M	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0DUP	P377532D270106A	DUP	METHOD	314.0	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0DUP	P377532D271002B	DUP	METHOD	300.0	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0MSD	P377532M240735A	MSD	3550B	8082	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0MSD	P377532M320029A	MSD	3550B	8015M	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0MSD	P377532M322234A	MSD	METHOD	8015B	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0MS	P377532R240717A	MS	3550B	8082	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0MS	P377532R270129A	MS	METHOD	314.0	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0MS	P377532R271016B	MS	METHOD	300.0	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0MS	P377532R320006A	MS	3550B	8015M	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0MS	P377532R322220A	MS	METHOD	8015B	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	3050B	6010B	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	3050B	6020	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	3060A	7199	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	3550B	8015M	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	3550B	8082	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	3550B	8270C	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	3550B	8270C SIM	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	5035	8015M	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	METHOD	300.0	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	METHOD	314.0	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	METHOD	7471A	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	METHOD	8015B	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	METHOD	8015M	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	3050B	6010B	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	3050B	6020	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	3060A	7199	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	3550B	8015M	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	3550B	8082	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	3550B	8270C	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	3550B	8270C SIM	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	5035	8015M	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	METHOD	300.0	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	METHOD	314.0	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	METHOD	7471A	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	METHOD	8015B	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	METHOD	8015M	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	3050B	6010B	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	3050B	6020	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	3060A	7199	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	3550B	8015M	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	3550B	8082	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	3550B	8270C	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	3550B	8270C SIM	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	5035	8015M	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	METHOD	300.0	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	METHOD	314.0	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	METHOD	7471A	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	METHOD	8015B	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	METHOD	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE224 **Laboratory: LL**

EDD Filename: DE224_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SL-156-SA6-SB-3.0-4.0 **Collected: 8/15/2011 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	1.9		0.84	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-157-SA6-SB-2.0-3.0 **Collected: 8/15/2011 1:54:00** **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		0.87	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.4	J	0.87	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA6-SB-3.0-4.0 **Collected: 8/15/2011 11:38:00** **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		0.86	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.2	J	0.86	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA6-SB-3.0-4.0 **Collected: 8/15/2011 9:28:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.0	J	0.87	MDL	1.1	PQL	mg/Kg	J	Z, Q
Nitrate-NO3	1.2	J	0.87	MDL	1.6	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-156-SA6-SB-3.0-4.0 **Collected: 8/15/2011 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	1.62	J	0.375	MDL	5.21	PQL	mg/Kg	J	Z
PHOSPHORUS	355		0.365	MDL	10.4	PQL	mg/Kg	J	Q, E
POTASSIUM	2810		11.8	MDL	52.1	PQL	mg/Kg	J	Q, Q, E
TIN	2.92	J	0.333	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.88	J	0.479	MDL	5.21	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: DE224 **Laboratory: LL**

EDD Filename: DE224_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-157-SA6-SB-2.0-3.0 *Collected:* 8/15/2011 1:54:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.61	J	0.380	MDL	5.28	PQL	mg/Kg	J	Z
PHOSPHORUS	460		0.369	MDL	10.6	PQL	mg/Kg	J	Q, E
POTASSIUM	5140		11.9	MDL	52.8	PQL	mg/Kg	J	Q, Q, E
TIN	3.01	J	0.338	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.58	J	0.486	MDL	5.28	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA6-SB-3.0-4.0 *Collected:* 8/15/2011 11:38:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.48	J	0.378	MDL	5.25	PQL	mg/Kg	J	Z
PHOSPHORUS	505		0.367	MDL	10.5	PQL	mg/Kg	J	Q, E
POTASSIUM	5650		11.9	MDL	52.5	PQL	mg/Kg	J	Q, Q, E
TIN	2.87	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	3.12	J	0.483	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA6-SB-3.0-4.0 *Collected:* 8/15/2011 9:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.68	J	0.370	MDL	5.14	PQL	mg/Kg	J	Z
PHOSPHORUS	433		0.360	MDL	10.3	PQL	mg/Kg	J	Q, E
POTASSIUM	4850		11.6	MDL	51.4	PQL	mg/Kg	J	Q, Q, E
TIN	2.94	J	0.329	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.60	J	0.473	MDL	5.14	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-156-SA6-SB-3.0-4.0 *Collected:* 8/15/2011 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	0.141	J	0.0593	MDL	0.409	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: DE224 **Laboratory: LL**

EDD Filename: DE224_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-156-SA6-SB-3.0-4.0 **Collected:** 8/15/2011 8:25:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	12.5		0.0825	MDL	0.413	PQL	mg/Kg	J	Q

Sample ID: SL-156-SA6-SB-3.0-4.0 **Collected:** 8/15/2011 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	0.0756	U	0.0756	MDL	0.204	PQL	mg/Kg	UJ	Q, E
CADMIUM	0.0885	J	0.0450	MDL	0.102	PQL	mg/Kg	J	Z
CHROMIUM	26.6		0.123	MDL	0.409	PQL	mg/Kg	J	Q
LEAD	10.4		0.0104	MDL	0.204	PQL	mg/Kg	J	Q
SILVER	0.0857	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA6-SB-2.0-3.0 **Collected:** 8/15/2011 1:54:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.184	J	0.0606	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA6-SB-2.0-3.0 **Collected:** 8/15/2011 1:54:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	23.5		0.0836	MDL	0.418	PQL	mg/Kg	J	Q

Sample ID: SL-157-SA6-SB-2.0-3.0 **Collected:** 8/15/2011 1:54:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0773	U	0.0773	MDL	0.209	PQL	mg/Kg	UJ	Q, E
CHROMIUM	28.4		0.125	MDL	0.418	PQL	mg/Kg	J	Q
LEAD	9.50		0.0107	MDL	0.209	PQL	mg/Kg	J	Q
SILVER	0.0636	J	0.0148	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA6-SB-3.0-4.0 **Collected:** 8/15/2011 11:38:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.171	J	0.0591	MDL	0.408	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: DE224 **Laboratory: LL**

EDD Filename: DE224_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-166-SA6-SB-3.0-4.0 *Collected:* 8/15/2011 11:38:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	22.9		0.0824	MDL	0.412	PQL	mg/Kg	J	Q

Sample ID: SL-166-SA6-SB-3.0-4.0 *Collected:* 8/15/2011 11:38:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0755	U	0.0755	MDL	0.204	PQL	mg/Kg	UJ	Q, E
CHROMIUM	26.8		0.122	MDL	0.408	PQL	mg/Kg	J	Q
LEAD	8.08		0.0104	MDL	0.204	PQL	mg/Kg	J	Q
SILVER	0.0536	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA6-SB-3.0-4.0 *Collected:* 8/15/2011 9:28:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.128	J	0.0614	MDL	0.423	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA6-SB-3.0-4.0 *Collected:* 8/15/2011 9:28:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	18.5		0.0847	MDL	0.423	PQL	mg/Kg	J	Q

Sample ID: SL-167-SA6-SB-3.0-4.0 *Collected:* 8/15/2011 9:28:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0783	U	0.0783	MDL	0.212	PQL	mg/Kg	UJ	Q, E
CHROMIUM	25.5		0.127	MDL	0.423	PQL	mg/Kg	J	Q
LEAD	8.23		0.0108	MDL	0.212	PQL	mg/Kg	J	Q
SILVER	0.0482	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-156-SA6-SB-3.0-4.0 *Collected:* 8/15/2011 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	0.30	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

Data Qualifier Summary

Lab Reporting Batch ID: DE224 **Laboratory:** LL

EDD Filename: DE224_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-166-SA6-SB-3.0-4.0 *Collected:* 8/15/2011 11:38:00 *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	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA6-SB-3.0-4.0 *Collected:* 8/15/2011 9:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.44	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-156-SA6-SB-3.0-4.0 *Collected:* 8/15/2011 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 (C15-C20)	0.68	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA6-SB-3.0-4.0 *Collected:* 8/15/2011 11:38:00 *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)	1.0	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA6-SB-3.0-4.0 *Collected:* 8/15/2011 9:28:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.46	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-157-SA6-SB-2.0-3.0 *Collected:* 8/15/2011 1:54:00 *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	0.35	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

Data Qualifier Summary

Lab Reporting Batch ID: DE224 **Laboratory: LL**

EDD Filename: DE224_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-166-SA6-SB-3.0-4.0 *Collected:* 8/15/2011 11:38:00 *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	0.75	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: SL-167-SA6-SB-3.0-4.0 *Collected:* 8/15/2011 9:28:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.4	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.55	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	0.74	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE224 **Laboratory: LL**

EDD Filename: DE224_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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: DE224 **Laboratory: LL**

EDD Filename: DE224_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

Data Qualifier Summary

Lab Reporting Batch ID: DE224 **Laboratory: LL**

EDD Filename: DE224_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE224

Method Blank Outlier Report

Lab Reporting Batch ID: DE224 **Laboratory: LL**

EDD Filename: DE224_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23408CB220737	8/23/2011 7:37:00 AM	CALCIUM	5.69 mg/Kg	SL-156-SA6-SB-3.0-4.0
		IRON	5.52 mg/Kg	SL-157-SA6-SB-2.0-3.0
		MAGNESIUM	0.614 mg/Kg	SL-166-SA6-SB-3.0-4.0
		MANGANESE	0.0429 mg/Kg	SL-167-SA6-SB-3.0-4.0
		PHOSPHORUS	1.19 mg/Kg	
		TIN	1.62 mg/Kg	

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-156-SA6-SB-3.0-4.0(RES)	TIN	2.92 mg/Kg	2.92U mg/Kg
SL-157-SA6-SB-2.0-3.0(RES)	TIN	3.01 mg/Kg	3.01U mg/Kg
SL-166-SA6-SB-3.0-4.0(RES)	TIN	2.87 mg/Kg	2.87U mg/Kg
SL-167-SA6-SB-3.0-4.0(RES)	TIN	2.94 mg/Kg	2.94U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE224 **Laboratory: LL**

EDD Filename: DE224_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-156-SA6-SB-3.0-4.0MSD (SL-156-SA6-SB-3.0-4.0)	ETHANOL	-	-	48.00-130.00	51 (20.00)	ETHANOL	J (all detects)
	Isopropanol	-	-	12.00-149.00	52 (20.00)	Isopropanol	
	METHANOL	-	-	43.00-138.00	50 (20.00)	METHANOL	

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-156-SA6-SB-3.0-4.0MS (SL-156-SA6-SB-3.0-4.0 SL-157-SA6-SB-2.0-3.0 SL-166-SA6-SB-3.0-4.0 SL-167-SA6-SB-3.0-4.0)	FLUORIDE	54	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

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

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE224 **Laboratory: LL**

EDD Filename: DE224_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-156-SA6-SB-3.0-4.0DUP (SL-156-SA6-SB-3.0-4.0 SL -157-SA6-SB-2.0-3.0 SL -166-SA6-SB-3.0-4.0 SL -167-SA6-SB-3.0-4.0)	FLUORIDE	25	20.00	No Qual, OK by Difference

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE224 **Laboratory: LL**

EDD Filename: DE224_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-156-SA6-SB-3.0-4.0 SL -157-SA6-SB-2.0-3.0 SL -166-SA6-SB-3.0-4.0 SL -167-SA6-SB-3.0-4.0)	ETHYLENE GLYCOL	123	-	65.00-122.00	-	ETHYLENE GLYCOL	J (all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23426AQ220631A (SL-156-SA6-SB-3.0-4.0 SL -157-SA6-SB-2.0-3.0 SL -166-SA6-SB-3.0-4.0 SL -167-SA6-SB-3.0-4.0)	ANTIMONY	56	-	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
P23408CQ220741 (SL-156-SA6-SB-3.0-4.0 SL -157-SA6-SB-2.0-3.0 SL -166-SA6-SB-3.0-4.0 SL -167-SA6-SB-3.0-4.0)	ALUMINUM	140	-	80.00-120.00	-	ALUMINUM	No Qual, SRM within QC limits
	IRON	132	-	80.00-120.00	-	IRON	
	TITANIUM	169	-	80.00-120.00	-	TITANIUM	

Reporting Limit Outliers

Lab Reporting Batch ID: DE224 **Laboratory: LL**

EDD Filename: DE224_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-157-SA6-SB-2.0-3.0	Nitrate-NO3	J	1.4	1.6	PQL	mg/Kg	J (all detects)
SL-166-SA6-SB-3.0-4.0	Nitrate-NO3	J	1.2	1.6	PQL	mg/Kg	J (all detects)
SL-167-SA6-SB-3.0-4.0	FLUORIDE Nitrate-NO3	J J	1.0 1.2	1.1 1.6	PQL PQL	mg/Kg mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-156-SA6-SB-3.0-4.0	BORON TIN Zirconium	J J J	1.62 2.92 1.88	5.21 10.4 5.21	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-157-SA6-SB-2.0-3.0	BORON TIN Zirconium	J J J	1.61 3.01 2.58	5.28 10.6 5.28	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-166-SA6-SB-3.0-4.0	BORON TIN Zirconium	J J J	2.48 2.87 3.12	5.25 10.5 5.25	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-167-SA6-SB-3.0-4.0	BORON TIN Zirconium	J J J	2.68 2.94 2.60	5.14 10.3 5.14	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-156-SA6-SB-3.0-4.0	CADMIUM SELENIUM SILVER	J J J	0.0885 0.141 0.0857	0.102 0.409 0.102	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-157-SA6-SB-2.0-3.0	SELENIUM SILVER	J J	0.184 0.0636	0.418 0.105	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-166-SA6-SB-3.0-4.0	SELENIUM SILVER	J J	0.171 0.0536	0.408 0.102	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-167-SA6-SB-3.0-4.0	SELENIUM SILVER	J J	0.128 0.0482	0.423 0.106	PQL PQL	mg/Kg mg/Kg	J (all detects)

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-156-SA6-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.30	1.1	PQL	mg/Kg	J (all detects)
SL-166-SA6-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.40	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: DE224 **Laboratory: LL**

EDD Filename: DE224_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-167-SA6-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.44	1.1	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-156-SA6-SB-3.0-4.0	EFH (C15-C20)	J	0.68	1.3	PQL	mg/Kg	J (all detects)
SL-166-SA6-SB-3.0-4.0	EFH (C21-C30)	J	1.0	1.3	PQL	mg/Kg	J (all detects)
SL-167-SA6-SB-3.0-4.0	EFH (C21-C30)	J	0.46	1.3	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-157-SA6-SB-2.0-3.0	AROCLOR 1254	J	0.54	1.8	PQL	ug/Kg	J (all detects)
SL-166-SA6-SB-3.0-4.0	AROCLOR 1254	J	0.75	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-167-SA6-SB-3.0-4.0	BENZO(B)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.0	1.8	PQL	ug/Kg	
	CHRYSENE	J	0.55	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	0.74	1.8	PQL	ug/Kg	

LDC #: 26533M4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/2/11
SDG #: DE224 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MH
2nd Reviewer:

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	No hits by ICB/CCB.
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	see WF 223
VII.	Duplicate Sample Analysis	A	
VIII.	Laboratory Control Samples (LCS)	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-156-SA6-SB-3.0-41.0	11		21		31	
2	SL-166-SA6-SB-3.0-4.0	12		22		32	
3	SL-167-SA6-SB-3.0-4.0	13		23		33	
4	SL-157-SA6-SB-2.0-3.0	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

DE225

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
16-Aug-2011	TB-081611	6378935	TB	5030B	8015M	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	3050B	6010B	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	3050B	6020	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	3060A	7199	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	3550B	8015B	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	3550B	8015M	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	3550B	8082	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	3550B	8270C	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	3550B	8270C SIM	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	5035	8015M	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	METHOD	300.0	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	METHOD	314.0	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	METHOD	7471A	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	METHOD	8015B	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	METHOD	8015M	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	3050B	6010B	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	3050B	6020	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	3060A	7199	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	3550B	8015B	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	3550B	8015M	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	3550B	8082	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	3550B	8270C	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	3550B	8270C SIM	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	5035	8015M	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	METHOD	300.0	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	METHOD	6850	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	METHOD	7471A	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	METHOD	8015B	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	METHOD	8015M	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	3050B	6010B	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	3050B	6020	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	3060A	7199	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	3550B	8015B	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	3550B	8015M	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	3550B	8082	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	3550B	8270C	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	3550B	8270C SIM	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	5035	8015M	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	METHOD	300.0	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	METHOD	314.0	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	METHOD	7471A	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	METHOD	8015B	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	METHOD	8015M	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	3050B	6010B	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	3050B	6020	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	3060A	7199	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	3550B	8015B	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	3550B	8015M	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	3550B	8082	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	3550B	8270C	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	5035	8015M	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	METHOD	300.0	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	METHOD	314.0	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	METHOD	7471A	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	METHOD	8015B	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	METHOD	8015M	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	3050B	6010B	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	3050B	6020	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	3060A	7199	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	3550B	8015B	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	3550B	8015M	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	3550B	8082	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	3550B	8270C	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	3550B	8270C SIM	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	5035	8015M	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	METHOD	300.0	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	METHOD	314.0	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	METHOD	7471A	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	METHOD	8015B	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	METHOD	8015M	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	3050B	6010B	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	3050B	6020	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	3060A	7199	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	3550B	8015B	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	3550B	8015M	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	3550B	8082	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	3550B	8270C	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	3550B	8270C SIM	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	5035	8015M	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	METHOD	300.0	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	METHOD	314.0	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	METHOD	6850	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	METHOD	7471A	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	METHOD	8015B	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	METHOD	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE225 **Laboratory: LL**

EDD Filename: DE225_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-159-SA6-SB-4.0-5.0 **Collected:** 8/16/2011 10:01:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.47	J	0.378	MDL	5.25	PQL	mg/Kg	J	Z
PHOSPHORUS	509		0.367	MDL	10.5	PQL	mg/Kg	J	Q, E
POTASSIUM	3970		11.9	MDL	52.5	PQL	mg/Kg	J	Q, Q, E
SODIUM	92.1	J	6.25	MDL	105	PQL	mg/Kg	J	Z
TIN	2.68	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.95	J	0.483	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA6-SB-7.0-8.0 **Collected:** 8/16/2011 10:03:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.13	J	0.384	MDL	5.33	PQL	mg/Kg	J	Z
PHOSPHORUS	402		0.373	MDL	10.7	PQL	mg/Kg	J	Q, E
POTASSIUM	1920		12.0	MDL	53.3	PQL	mg/Kg	J	Q, Q, E
SODIUM	102	J	6.34	MDL	107	PQL	mg/Kg	J	Z
TIN	2.98	J	0.341	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.66	J	0.490	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: SL-160-SA6-SB-4.0-5.0 **Collected:** 8/16/2011 8:56:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.36	J	0.379	MDL	5.26	PQL	mg/Kg	J	Z
PHOSPHORUS	453		0.368	MDL	10.5	PQL	mg/Kg	J	Q, E
POTASSIUM	4730		11.9	MDL	52.6	PQL	mg/Kg	J	Q, Q, E
SODIUM	103	J	6.26	MDL	105	PQL	mg/Kg	J	Z
TIN	2.67	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.19	J	0.484	MDL	5.26	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA6-SB-4.0-5.0 **Collected:** 8/16/2011 11:59:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.55	J	0.395	MDL	5.49	PQL	mg/Kg	J	Z
PHOSPHORUS	474		0.384	MDL	11.0	PQL	mg/Kg	J	Q, E
POTASSIUM	3680		12.4	MDL	54.9	PQL	mg/Kg	J	Q, Q, E
TIN	3.02	J	0.351	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	1.67	J	0.505	MDL	5.49	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: DE225 **Laboratory: LL**

EDD Filename: DE225_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-164-SA6-SB-8.0-9.0 *Collected:* 8/16/2011 12:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	653		0.399	MDL	11.4	PQL	mg/Kg	J	Q, E
POTASSIUM	2580		12.9	MDL	56.9	PQL	mg/Kg	J	Q, Q, E
TIN	3.62	J	0.364	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	0.854	J	0.524	MDL	5.69	PQL	mg/Kg	J	Z

Sample ID: SL-321-SA6-SB-2.0-3.0 *Collected:* 8/16/2011 11:02:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.48	J	0.367	MDL	5.10	PQL	mg/Kg	J	Z
PHOSPHORUS	440		0.357	MDL	10.2	PQL	mg/Kg	J	Q, E
POTASSIUM	3020		11.5	MDL	51.0	PQL	mg/Kg	J	Q, Q, E
TIN	2.99	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.90	J	0.469	MDL	5.10	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-159-SA6-SB-4.0-5.0 *Collected:* 8/16/2011 10:01:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.134	J	0.0591	MDL	0.408	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA6-SB-4.0-5.0 *Collected:* 8/16/2011 10:01:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	14.3		0.0832	MDL	0.416	PQL	mg/Kg	J	Q

Sample ID: SL-159-SA6-SB-4.0-5.0 *Collected:* 8/16/2011 10:01:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0755	U	0.0755	MDL	0.204	PQL	mg/Kg	UJ	Q, E
CHROMIUM	20.8		0.122	MDL	0.408	PQL	mg/Kg	J	Q
LEAD	6.57		0.0104	MDL	0.204	PQL	mg/Kg	J	Q
SILVER	0.0440	J	0.0145	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

Data Qualifier Summary

Lab Reporting Batch ID: DE225 **Laboratory: LL**

EDD Filename: DE225_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-159-SA6-SB-7.0-8.0 *Collected:* 8/16/2011 10:03:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.171	J	0.0642	MDL	0.443	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA6-SB-7.0-8.0 *Collected:* 8/16/2011 10:03:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	24.1		0.0895	MDL	0.447	PQL	mg/Kg	J	Q

Sample ID: SL-159-SA6-SB-7.0-8.0 *Collected:* 8/16/2011 10:03:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0820	U	0.0820	MDL	0.221	PQL	mg/Kg	UJ	Q, E
CADMIUM	0.0672	J	0.0487	MDL	0.111	PQL	mg/Kg	J	Z
CHROMIUM	26.6		0.133	MDL	0.443	PQL	mg/Kg	J	Q
LEAD	5.81		0.0113	MDL	0.221	PQL	mg/Kg	J	Q

Sample ID: SL-160-SA6-SB-4.0-5.0 *Collected:* 8/16/2011 8:56:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.139	J	0.0598	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-160-SA6-SB-4.0-5.0 *Collected:* 8/16/2011 8:56:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	18.6		0.0817	MDL	0.408	PQL	mg/Kg	J	Q

Sample ID: SL-160-SA6-SB-4.0-5.0 *Collected:* 8/16/2011 8:56:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0763	U	0.0763	MDL	0.206	PQL	mg/Kg	UJ	Q, E
CHROMIUM	18.8		0.124	MDL	0.412	PQL	mg/Kg	J	Q
LEAD	5.91		0.0105	MDL	0.206	PQL	mg/Kg	J	Q
SILVER	0.0476	J	0.0146	MDL	0.103	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: DE225 **Laboratory: LL**

EDD Filename: DE225_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-164-SA6-SB-4.0-5.0 *Collected:* 8/16/2011 11:59:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.172	J	0.0612	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA6-SB-4.0-5.0 *Collected:* 8/16/2011 11:59:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	24.4		0.0853	MDL	0.426	PQL	mg/Kg	J	Q

Sample ID: SL-164-SA6-SB-4.0-5.0 *Collected:* 8/16/2011 11:59:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0781	U	0.0781	MDL	0.211	PQL	mg/Kg	UJ	Q, E
CHROMIUM	23.6		0.127	MDL	0.422	PQL	mg/Kg	J	Q
LEAD	8.39		0.0108	MDL	0.211	PQL	mg/Kg	J	Q
SILVER	0.0525	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA6-SB-8.0-9.0 *Collected:* 8/16/2011 12:01:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.305	J	0.0635	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA6-SB-8.0-9.0 *Collected:* 8/16/2011 12:01:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	32.4		0.0902	MDL	0.451	PQL	mg/Kg	J	Q

Sample ID: SL-164-SA6-SB-8.0-9.0 *Collected:* 8/16/2011 12:01:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.140	J	0.0810	MDL	0.219	PQL	mg/Kg	J	Z, Q, E
CADMIUM	0.0870	J	0.0482	MDL	0.110	PQL	mg/Kg	J	Z
CHROMIUM	38.3		0.131	MDL	0.438	PQL	mg/Kg	J	Q
LEAD	15.6		0.0112	MDL	0.219	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: DE225 **Laboratory: LL**

EDD Filename: DE225_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-321-SA6-SB-2.0-3.0 *Collected:* 8/16/2011 11:02:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z

Sample ID: SL-321-SA6-SB-2.0-3.0 *Collected:* 8/16/2011 11:02:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	16.6		0.0815	MDL	0.408	PQL	mg/Kg	J	Q

Sample ID: SL-321-SA6-SB-2.0-3.0 *Collected:* 8/16/2011 11:02:00 *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	Q, E
CADMIUM	0.0963	J	0.0436	MDL	0.0990	PQL	mg/Kg	J	Z
CHROMIUM	21.8		0.119	MDL	0.396	PQL	mg/Kg	J	Q
LEAD	6.64		0.0101	MDL	0.198	PQL	mg/Kg	J	Q
SILVER	0.0377	J	0.0141	MDL	0.0990	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-159-SA6-SB-4.0-5.0 *Collected:* 8/16/2011 10:01:00 *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

Sample ID: SL-159-SA6-SB-7.0-8.0 *Collected:* 8/16/2011 10:03:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.41	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-160-SA6-SB-4.0-5.0 *Collected:* 8/16/2011 8:56:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.41	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

Data Qualifier Summary

Lab Reporting Batch ID: DE225 **Laboratory: LL**

EDD Filename: DE225_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-164-SA6-SB-4.0-5.0 *Collected:* 8/16/2011 11:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.69	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA6-SB-8.0-9.0 *Collected:* 8/16/2011 12:01:00 *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	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-159-SA6-SB-4.0-5.0 *Collected:* 8/16/2011 10:01:00 *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)	0.87	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-160-SA6-SB-4.0-5.0 *Collected:* 8/16/2011 8:56:00 *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	0.42	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.98	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA6-SB-4.0-5.0 *Collected:* 8/16/2011 11:59:00 *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)	0.46	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA6-SB-8.0-9.0 *Collected:* 8/16/2011 12:01:00 *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)	0.64	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.91	J	0.46	MDL	1.4	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: DE225 **Laboratory: LL**

EDD Filename: DE225_v1 **eQAPP Name: CDM_SSFL_110509**

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

Sample ID: SL-164-SA6-SB-4.0-5.0 *Collected:* 8/16/2011 11:59:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.4	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, S

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

Sample ID: SL-321-SA6-SB-2.0-3.0 *Collected:* 8/16/2011 11:02:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	21	J	17	MDL	170	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE225 **Laboratory: LL**

EDD Filename: DE225_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DE225 **Laboratory: LL**

EDD Filename: DE225_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

Data Qualifier Summary

Lab Reporting Batch ID: DE225 **Laboratory: LL**

EDD Filename: DE225_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE225

Method Blank Outlier Report

Lab Reporting Batch ID: DE225 **Laboratory: LL**

EDD Filename: DE225_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23408CB220737	8/23/2011 7:37:00 AM	CALCIUM	5.69 mg/Kg	SL-159-SA6-SB-4.0-5.0
		IRON	5.52 mg/Kg	SL-159-SA6-SB-7.0-8.0
		MAGNESIUM	0.614 mg/Kg	SL-160-SA6-SB-4.0-5.0
		MANGANESE	0.0429 mg/Kg	SL-164-SA6-SB-4.0-5.0
		PHOSPHORUS	1.19 mg/Kg	SL-164-SA6-SB-8.0-9.0
		TIN	1.62 mg/Kg	SL-321-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-159-SA6-SB-4.0-5.0(RES)	TIN	2.68 mg/Kg	2.68U mg/Kg
SL-159-SA6-SB-7.0-8.0(RES)	TIN	2.98 mg/Kg	2.98U mg/Kg
SL-160-SA6-SB-4.0-5.0(RES)	TIN	2.67 mg/Kg	2.67U mg/Kg
SL-164-SA6-SB-4.0-5.0(RES)	TIN	3.02 mg/Kg	3.02U mg/Kg
SL-164-SA6-SB-8.0-9.0(RES)	TIN	3.62 mg/Kg	3.62U mg/Kg
SL-321-SA6-SB-2.0-3.0(RES)	TIN	2.99 mg/Kg	2.99U mg/Kg

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE225 **Laboratory: LL**

EDD Filename: DE225_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-159-SA6-SB-4.0-5.0 SL -159-SA6-SB-7.0-8.0 SL -160-SA6-SB-4.0-5.0 SL -164-SA6-SB-8.0-9.0 SL -321-SA6-SB-2.0-3.0)	ETHYLENE GLYCOL	123	-	65.00-122.00	-	ETHYLENE GLYCOL	J (all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23426AQ220631A (SL-159-SA6-SB-4.0-5.0 SL -159-SA6-SB-7.0-8.0 SL -160-SA6-SB-4.0-5.0 SL -164-SA6-SB-4.0-5.0 SL -164-SA6-SB-8.0-9.0 SL -321-SA6-SB-2.0-3.0)	ANTIMONY	56	-	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
P23408CQ220741 (SL-159-SA6-SB-4.0-5.0 SL -159-SA6-SB-7.0-8.0 SL -160-SA6-SB-4.0-5.0 SL -164-SA6-SB-4.0-5.0 SL -164-SA6-SB-8.0-9.0 SL -321-SA6-SB-2.0-3.0)	ALUMINUM	140	-	80.00-120.00	-	ALUMINUM	No Qual, SRM within QC Limits
	IRON	132	-	80.00-120.00	-	IRON	
	TITANIUM	169	-	80.00-120.00	-	TITANIUM	

Surrogate Outlier Report

Lab Reporting Batch ID: DE225 **Laboratory: LL**

EDD Filename: DE225_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8082**
Matrix: **SO**

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
SL-159-SA6-SB-4.0 -5.0	DECACHLOROBIPHENYL	130	45.00-120.00	All Target Analytes	J (all detects)
SL-160-SA6-SB-4.0 -5.0	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	146 147	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)
SL-164-SA6-SB-4.0 -5.0	DECACHLOROBIPHENYL	122	45.00-120.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE225 **Laboratory: LL**

EDD Filename: DE225_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-159-SA6-SB-4.0-5.0	BORON	J	3.47	5.25	PQL	mg/Kg	J (all detects)
	SODIUM	J	92.1	105	PQL	mg/Kg	
	TIN	J	2.68	10.5	PQL	mg/Kg	
	Zirconium	J	1.95	5.25	PQL	mg/Kg	
SL-159-SA6-SB-7.0-8.0	BORON	J	1.13	5.33	PQL	mg/Kg	J (all detects)
	SODIUM	J	102	107	PQL	mg/Kg	
	TIN	J	2.98	10.7	PQL	mg/Kg	
	Zirconium	J	1.66	5.33	PQL	mg/Kg	
SL-160-SA6-SB-4.0-5.0	BORON	J	3.36	5.26	PQL	mg/Kg	J (all detects)
	SODIUM	J	103	105	PQL	mg/Kg	
	TIN	J	2.67	10.5	PQL	mg/Kg	
	Zirconium	J	2.19	5.26	PQL	mg/Kg	
SL-164-SA6-SB-4.0-5.0	BORON	J	1.55	5.49	PQL	mg/Kg	J (all detects)
	TIN	J	3.02	11.0	PQL	mg/Kg	
	Zirconium	J	1.67	5.49	PQL	mg/Kg	
SL-164-SA6-SB-8.0-9.0	TIN	J	3.62	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.854	5.69	PQL	mg/Kg	
SL-321-SA6-SB-2.0-3.0	BORON	J	3.48	5.10	PQL	mg/Kg	J (all detects)
	TIN	J	2.99	10.2	PQL	mg/Kg	
	Zirconium	J	1.90	5.10	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-159-SA6-SB-4.0-5.0	SELENIUM	J	0.134	0.408	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0440	0.102	PQL	mg/Kg	
SL-159-SA6-SB-7.0-8.0	CADMIUM	J	0.0672	0.111	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.171	0.443	PQL	mg/Kg	
SL-160-SA6-SB-4.0-5.0	SELENIUM	J	0.139	0.412	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0476	0.103	PQL	mg/Kg	
SL-164-SA6-SB-4.0-5.0	SELENIUM	J	0.172	0.422	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0525	0.106	PQL	mg/Kg	
SL-164-SA6-SB-8.0-9.0	ANTIMONY	J	0.140	0.219	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0870	0.110	PQL	mg/Kg	
	SELENIUM	J	0.305	0.438	PQL	mg/Kg	
SL-321-SA6-SB-2.0-3.0	CADMIUM	J	0.0963	0.0990	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.144	0.396	PQL	mg/Kg	
	SILVER	J	0.0377	0.0990	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-159-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.47	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: DE225 **Laboratory: LL**

EDD Filename: DE225_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-159-SA6-SB-7.0-8.0	HEXAVALENT CHROMIUM	J	0.41	1.1	PQL	mg/Kg	J (all detects)
SL-160-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.41	1.1	PQL	mg/Kg	J (all detects)
SL-164-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.69	1.1	PQL	mg/Kg	J (all detects)
SL-164-SA6-SB-8.0-9.0	HEXAVALENT CHROMIUM	J	0.25	1.1	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-159-SA6-SB-4.0-5.0	EFH (C30-C40)	J	0.87	1.3	PQL	mg/Kg	J (all detects)
SL-160-SA6-SB-4.0-5.0	EFH (C15-C20) EFH (C30-C40)	J J	0.51 0.98	1.3 1.3	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-164-SA6-SB-4.0-5.0	EFH (C15-C20)	J	0.46	1.3	PQL	mg/Kg	J (all detects)
SL-164-SA6-SB-8.0-9.0	EFH (C21-C30) EFH (C30-C40)	J J	0.64 0.91	1.4 1.4	PQL PQL	mg/Kg mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-164-SA6-SB-4.0-5.0	AROCLOR 1254	J	1.4	1.9	PQL	ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-321-SA6-SB-2.0-3.0	BENZO(A)PYRENE	J	21	170	PQL	ug/Kg	J (all detects)

LDC #: 26533N4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/7/11
SDG #: DE225 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MM
2nd Reviewer: A

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	Ni qual by ICB/CCB
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	Sample DE223
VII.	Duplicate Sample Analysis	NA	
VIII.	Laboratory Control Samples (LCS)	NA	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-159-SA6-SB-4.0-5.0	11		21		31	
2	SL-159-SA6-SB-7.0-8.0	12		22		32	
3	SL-160-SA6-SB-4.0-5.0	13		23		33	
4	SL-164-SA6-SB-4.0-5.0	14		24		34	
5	SL-164-SA6-SB-8.0-9.0	15		25		35	
6	SL-321-SA6-SB-2.0-3.0	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

SAMPLE DELIVERY GROUP

DE226

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
17-Aug-2011	SL-154-SA6-SB-3.0-4.0	6380489	N	3050B	6010B	III
17-Aug-2011	SL-154-SA6-SB-3.0-4.0	6380489	N	3050B	6020	III
17-Aug-2011	SL-154-SA6-SB-3.0-4.0	6380489	N	3060A	7199	III
17-Aug-2011	SL-154-SA6-SB-3.0-4.0	6380489	N	3550B	8082	III
17-Aug-2011	SL-154-SA6-SB-3.0-4.0	6380489	N	3550B	8270C	III
17-Aug-2011	SL-154-SA6-SB-3.0-4.0	6380489	N	3550B	8270C SIM	III
17-Aug-2011	SL-154-SA6-SB-3.0-4.0	6380489	N	Gen Prep	300.0	III
17-Aug-2011	SL-154-SA6-SB-3.0-4.0	6380489	N	METHOD	314.0	III
17-Aug-2011	SL-154-SA6-SB-3.0-4.0	6380489	N	METHOD	7471A	III
17-Aug-2011	TB-081711	6380498	TB	5030B	8015M	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	3050B	6010B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	3050B	6020	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	3060A	7199	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	3550B	8015B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	3550B	8015M	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	3550B	8082	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	3550B	8270C	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	3550B	8270C SIM	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	5035	8015M	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	Gen Prep	300.0	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	METHOD	314.0	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	METHOD	7471A	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	METHOD	8015B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	METHOD	8015M	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	3050B	6010B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	3050B	6020	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	3060A	7199	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	3550B	8015B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	3550B	8015M	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	3550B	8082	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	3550B	8270C	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	3550B	8270C SIM	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	5035	8015M	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	Gen Prep	300.0	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	METHOD	314.0	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	METHOD	7471A	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	METHOD	8015B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	METHOD	8015M	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380494	MSD	3050B	6010B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380494	MSD	3050B	6020	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380494	MSD	3550B	8015B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380494	MSD	3550B	8015M	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380494	MSD	3550B	8082	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380494	MSD	3550B	8270C	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380494	MSD	3550B	8270C SIM	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380494	MSD	5035	8015M	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380494	MSD	METHOD	7471A	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380494	MSD	METHOD	8015B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380494	MSD	METHOD	8015M	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0DUP	6380495	DUP	3050B	6010B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0DUP	6380495	DUP	3050B	6020	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0DUP	6380495	DUP	3060A	7199	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Aug-2011	SL-224-SA6-SB-3.0-4.0DUP	6380495	DUP	Gen Prep	300.0	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0DUP	6380495	DUP	METHOD	314.0	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0DUP	6380495	DUP	METHOD	7471A	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	3050B	6010B	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	3050B	6020	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	3060A	7199	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	3550B	8015B	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	3550B	8015M	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	3550B	8082	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	3550B	8270C	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	3550B	8270C SIM	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	5035	8015M	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	Gen Prep	300.0	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	METHOD	314.0	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	METHOD	7471A	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	METHOD	8015B	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	METHOD	8015M	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	3050B	6010B	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	3050B	6020	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	3060A	7199	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	3550B	8015B	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	3550B	8015M	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	3550B	8082	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	3550B	8270C	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	3550B	8270C SIM	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	5035	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	Gen Prep	300.0	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	METHOD	314.0	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	METHOD	7471A	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	METHOD	8015B	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	METHOD	8015M	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	3050B	6010B	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	3050B	6020	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	3060A	7199	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	3550B	8015B	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	3550B	8015M	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	3550B	8082	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	3550B	8270C	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	3550B	8270C SIM	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	5035	8015M	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	Gen Prep	300.0	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	METHOD	314.0	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	METHOD	7471A	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	METHOD	8015B	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	METHOD	8015M	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	3005A	6010B	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	3020A	6020	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	3510C	8015B	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	3510C	8015M	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	3510C	8082	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	3510C	8270C	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	3510C	8270C SIM	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	3520C	1625C	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	5030B	8015M	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	5030B	8260B	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	5030B	8260B SIM	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	8330	8330A	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	Gen Prep	300.0	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	Gen Prep	314.0	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	Gen Prep	7199	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	Gen Prep	8015B	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	Gen Prep	8015M	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	Gen Prep	9012B	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	METHOD	7470A	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	METHOD	8315A	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	3050B	6010B	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	3050B	6020	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	3060A	7199	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	3550B	8015B	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	3550B	8015M	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	3550B	8082	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	3550B	8270C	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	3550B	8270C SIM	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	5035	8015M	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	Gen Prep	300.0	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	METHOD	314.0	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	METHOD	7471A	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	METHOD	8015B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	METHOD	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE226 **Laboratory: LL**

EDD Filename: PrepDE226_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: DUP12-SA6-QC-081711 *Collected:* 8/17/2011 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	2.2		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-154-SA6-SB-3.0-4.0 *Collected:* 8/17/2011 7:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.85	U	0.85	MDL	1.1	PQL	mg/Kg	R	Q

Sample ID: SL-221-SA6-SB-1.0-2.0 *Collected:* 8/17/2011 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	1.3		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-223-SA6-SB-2.5-3.5 *Collected:* 8/17/2011 11:56:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.97	J	0.83	MDL	1.0	PQL	mg/Kg	J	Z, Q

Sample ID: SL-224-SA6-SB-3.0-4.0 *Collected:* 8/17/2011 10:06:00 *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		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-226-SA6-SB-3.5-4.5 *Collected:* 8/17/2011 2:53:00 *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	R	Q

Method Category: METALS

Method: 6010B **Matrix: AQ**

Sample ID: EB-SA6-SB-081711 *Collected:* 8/17/2011 1:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0038	J	0.0022	MDL	0.0500	PQL	mg/L	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: DE226 **Laboratory:** LL

EDD Filename: PrepDE226_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP12-SA6-QC-081711 *Collected:* 8/17/2011 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	0.366	U	0.366	MDL	5.09	PQL	mg/Kg	UJ	FD
CALCIUM	2950		2.54	MDL	20.4	PQL	mg/Kg	J	FD
MAGNESIUM	5370		0.448	MDL	10.2	PQL	mg/Kg	J	FD
MANGANESE	583		0.0366	MDL	0.509	PQL	mg/Kg	J	E
POTASSIUM	1970		11.5	MDL	50.9	PQL	mg/Kg	J	Q
SODIUM	125		6.05	MDL	102	PQL	mg/Kg	J	FD
TIN	2.80	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.01	J	0.468	MDL	5.09	PQL	mg/Kg	J	Z

Sample ID: DUP12-SA6-QC-081711 *Collected:* 8/17/2011 10:10:00 *Analysis Type:* REA2 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	22000		13.3	MDL	102	PQL	mg/Kg	J	E, FD

Sample ID: SL-154-SA6-SB-3.0-4.0 *Collected:* 8/17/2011 7:45:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	24100		2.63	MDL	20.1	PQL	mg/Kg	J	E
MANGANESE	304		0.0362	MDL	0.503	PQL	mg/Kg	J	E
POTASSIUM	2530		11.4	MDL	50.3	PQL	mg/Kg	J	Q
SODIUM	98.0	J	5.99	MDL	101	PQL	mg/Kg	J	Z
TIN	2.81	J	0.322	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.29	J	0.463	MDL	5.03	PQL	mg/Kg	J	Z

Sample ID: SL-221-SA6-SB-1.0-2.0 *Collected:* 8/17/2011 10:55:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.594	J	0.380	MDL	5.28	PQL	mg/Kg	U	F
IRON	23600		2.75	MDL	21.1	PQL	mg/Kg	J	E
MANGANESE	273		0.0380	MDL	0.528	PQL	mg/Kg	J	E
POTASSIUM	2420		11.9	MDL	52.8	PQL	mg/Kg	J	Q
TIN	2.62	J	0.338	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.42	J	0.486	MDL	5.28	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: DE226 **Laboratory:** LL

EDD Filename: PrepDE226_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-223-SA6-SB-2.5-3.5 ***Collected:*** 8/17/2011 11:56:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.600	J	0.368	MDL	5.12	PQL	mg/Kg	U	F
IRON	26600		2.67	MDL	20.5	PQL	mg/Kg	J	E
MANGANESE	319		0.0368	MDL	0.512	PQL	mg/Kg	J	E
POTASSIUM	3590		11.6	MDL	51.2	PQL	mg/Kg	J	Q
TIN	2.72	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.07	J	0.471	MDL	5.12	PQL	mg/Kg	J	Z

Sample ID: SL-224-SA6-SB-3.0-4.0 ***Collected:*** 8/17/2011 10:06:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	5010		2.73	MDL	21.8	PQL	mg/Kg	J	FD
MAGNESIUM	9260		0.480	MDL	10.9	PQL	mg/Kg	J	FD
MANGANESE	375		0.0393	MDL	0.545	PQL	mg/Kg	J	E
SODIUM	234		6.49	MDL	109	PQL	mg/Kg	J	FD
TIN	3.77	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.58	J	0.502	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-224-SA6-SB-3.0-4.0 ***Collected:*** 8/17/2011 10:06:00 ***Analysis Type:*** REA2 ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	38100		14.2	MDL	109	PQL	mg/Kg	J	E, FD
POTASSIUM	2870		61.6	MDL	273	PQL	mg/Kg	J	Q

Sample ID: SL-224-SA6-SB-3.0-4.0 ***Collected:*** 8/17/2011 10:06:00 ***Analysis Type:*** REA3 ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	25.7	J	1.96	MDL	27.3	PQL	mg/Kg	J	Z, FD

Sample ID: SL-226-SA6-SB-3.5-4.5 ***Collected:*** 8/17/2011 2:53:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.989	J	0.375	MDL	5.20	PQL	mg/Kg	U	F
IRON	27300		2.72	MDL	20.8	PQL	mg/Kg	J	E
MANGANESE	415		0.0375	MDL	0.520	PQL	mg/Kg	J	E
POTASSIUM	4350		11.8	MDL	52.0	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE226 **Laboratory: LL**

EDD Filename: PrepDE226_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS
Method: 6010B **Matrix: SO**

Sample ID: SL-226-SA6-SB-3.5-4.5 *Collected:* 8/17/2011 2:53:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	84.9	J	6.19	MDL	104	PQL	mg/Kg	J	Z
TIN	2.80	J	0.333	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.30	J	0.479	MDL	5.20	PQL	mg/Kg	J	Z

Method Category: METALS
Method: 6020 **Matrix: AQ**

Sample ID: EB-SA6-SB-081711 *Collected:* 8/17/2011 1:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.00029	J	0.000080	MDL	0.0010	PQL	mg/L	J	Z

Method Category: METALS
Method: 6020 **Matrix: SO**

Sample ID: DUP12-SA6-QC-081711 *Collected:* 8/17/2011 10:10:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.103	J	0.0753	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	10.1		0.0814	MDL	0.407	PQL	mg/Kg	J	E, E
BERYLLIUM	0.932		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CADMIUM	0.0651	J	0.0448	MDL	0.102	PQL	mg/Kg	J	Z
CHROMIUM	20.3		0.122	MDL	0.407	PQL	mg/Kg	J	FD
COBALT	23.2		0.0204	MDL	0.102	PQL	mg/Kg	J	E, FD
COPPER	12.4		0.0814	MDL	0.407	PQL	mg/Kg	J	FD
LEAD	10.9		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, Q, E, E
SILVER	0.0372	J	0.0144	MDL	0.102	PQL	mg/Kg	J	Z, FD
THALLIUM	0.454		0.0305	MDL	0.102	PQL	mg/Kg	J	E, E
VANADIUM	40.0		0.0224	MDL	0.102	PQL	mg/Kg	J	FD

Sample ID: DUP12-SA6-QC-081711 *Collected:* 8/17/2011 10:10:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.172	J	0.0590	MDL	0.407	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: DE226 **Laboratory:** LL

EDD Filename: PrepDE226_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP12-SA6-QC-081711 ***Collected:*** 8/17/2011 10:10:00 ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.674		0.0509	MDL	0.102	PQL	mg/Kg	J	E

Sample ID: SL-154-SA6-SB-3.0-4.0 ***Collected:*** 8/17/2011 7:45:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0759	U	0.0759	MDL	0.205	PQL	mg/Kg	UJ	Q
ARSENIC	4.13		0.0821	MDL	0.411	PQL	mg/Kg	J	E, E
BERYLLIUM	0.640		0.0164	MDL	0.103	PQL	mg/Kg	J	Q
COBALT	6.55		0.0205	MDL	0.103	PQL	mg/Kg	J	E
LEAD	3.91		0.0105	MDL	0.205	PQL	mg/Kg	J	Q, Q, E, E
THALLIUM	0.275		0.0308	MDL	0.103	PQL	mg/Kg	J	E, E

Sample ID: SL-154-SA6-SB-3.0-4.0 ***Collected:*** 8/17/2011 7:45:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.142	J	0.0595	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: SL-154-SA6-SB-3.0-4.0 ***Collected:*** 8/17/2011 7:45:00 ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.476		0.0513	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-221-SA6-SB-1.0-2.0 ***Collected:*** 8/17/2011 10:55:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0759	U	0.0759	MDL	0.205	PQL	mg/Kg	UJ	Q
ARSENIC	6.46		0.0820	MDL	0.410	PQL	mg/Kg	J	E, E
BERYLLIUM	0.716		0.0164	MDL	0.103	PQL	mg/Kg	J	Q
COBALT	7.02		0.0205	MDL	0.103	PQL	mg/Kg	J	E
LEAD	6.27		0.0105	MDL	0.205	PQL	mg/Kg	J	Q, Q, E, E
SILVER	0.0428	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z
THALLIUM	0.271		0.0308	MDL	0.103	PQL	mg/Kg	J	E, 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: DE226 **Laboratory:** LL

EDD Filename: PrepDE226_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-221-SA6-SB-1.0-2.0 ***Collected:*** 8/17/2011 10:55:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.102	J	0.0595	MDL	0.410	PQL	mg/Kg	J	Z

Sample ID: SL-221-SA6-SB-1.0-2.0 ***Collected:*** 8/17/2011 10:55:00 ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.586		0.0513	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-223-SA6-SB-2.5-3.5 ***Collected:*** 8/17/2011 11:56:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0757	U	0.0757	MDL	0.205	PQL	mg/Kg	UJ	Q
ARSENIC	5.48		0.0819	MDL	0.409	PQL	mg/Kg	J	E, E
BERYLLIUM	0.686		0.0164	MDL	0.102	PQL	mg/Kg	J	Q
COBALT	6.83		0.0205	MDL	0.102	PQL	mg/Kg	J	E
LEAD	5.79		0.0104	MDL	0.205	PQL	mg/Kg	J	Q, Q, E, E
SILVER	0.0389	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z
THALLIUM	0.273		0.0307	MDL	0.102	PQL	mg/Kg	J	E, E

Sample ID: SL-223-SA6-SB-2.5-3.5 ***Collected:*** 8/17/2011 11:56:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.145	J	0.0594	MDL	0.409	PQL	mg/Kg	J	Z

Sample ID: SL-223-SA6-SB-2.5-3.5 ***Collected:*** 8/17/2011 11:56:00 ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.716		0.0512	MDL	0.102	PQL	mg/Kg	J	E

Sample ID: SL-224-SA6-SB-3.0-4.0 ***Collected:*** 8/17/2011 10:06:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.145	J	0.0784	MDL	0.212	PQL	mg/Kg	J	Z, Q
ARSENIC	11.3		0.0847	MDL	0.424	PQL	mg/Kg	J	E, E
BERYLLIUM	1.27		0.0169	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.0804	J	0.0466	MDL	0.106	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: DE226 **Laboratory:** LL

EDD Filename: PrepDE226_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-224-SA6-SB-3.0-4.0 ***Collected:*** 8/17/2011 10:06:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	40.9		0.127	MDL	0.424	PQL	mg/Kg	J	FD
COBALT	8.12		0.0212	MDL	0.106	PQL	mg/Kg	J	E, FD
COPPER	23.5		0.0847	MDL	0.424	PQL	mg/Kg	J	FD
LEAD	11.3		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, Q, E, E
SILVER	0.0649	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, FD
THALLIUM	0.427		0.0318	MDL	0.106	PQL	mg/Kg	J	E, E
VANADIUM	70.5		0.0233	MDL	0.106	PQL	mg/Kg	J	FD

Sample ID: SL-224-SA6-SB-3.0-4.0 ***Collected:*** 8/17/2011 10:06:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.281	J	0.0614	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-224-SA6-SB-3.0-4.0 ***Collected:*** 8/17/2011 10:06:00 ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.507		0.0529	MDL	0.106	PQL	mg/Kg	J	E

Sample ID: SL-226-SA6-SB-3.5-4.5 ***Collected:*** 8/17/2011 2:53:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0763	U	0.0763	MDL	0.206	PQL	mg/Kg	UJ	Q
ARSENIC	5.02		0.0825	MDL	0.412	PQL	mg/Kg	J	E, E
BERYLLIUM	0.677		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
COBALT	8.24		0.0206	MDL	0.103	PQL	mg/Kg	J	E
LEAD	5.98		0.0105	MDL	0.206	PQL	mg/Kg	J	Q, Q, E, E
SILVER	0.0314	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z
THALLIUM	0.287		0.0309	MDL	0.103	PQL	mg/Kg	J	E, E

Sample ID: SL-226-SA6-SB-3.5-4.5 ***Collected:*** 8/17/2011 2:53:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.113	J	0.0598	MDL	0.412	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: DE226 **Laboratory: LL**

EDD Filename: PrepDE226_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS
Method: 6020 **Matrix: SO**

Sample ID: SL-226-SA6-SB-3.5-4.5 *Collected:* 8/17/2011 2:53:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.631		0.0515	MDL	0.103	PQL	mg/Kg	J	E

Method Category: METALS
Method: 7199 **Matrix: SO**

Sample ID: DUP12-SA6-QC-081711 *Collected:* 8/17/2011 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	0.23	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z, FD

Sample ID: SL-221-SA6-SB-1.0-2.0 *Collected:* 8/17/2011 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	0.31	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-223-SA6-SB-2.5-3.5 *Collected:* 8/17/2011 11:56:00 *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

Sample ID: SL-224-SA6-SB-3.0-4.0 *Collected:* 8/17/2011 10:06:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.22	U	0.22	MDL	1.1	PQL	mg/Kg	UJ	FD

Sample ID: SL-226-SA6-SB-3.5-4.5 *Collected:* 8/17/2011 2:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE226 **Laboratory: LL**

EDD Filename: PrepDE226_v1 **eQAPP Name: CDM_SSFL_110509**

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

Sample ID: DUP12-SA6-QC-081711 *Collected:* 8/17/2011 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	0.0079	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z, FD

Sample ID: SL-224-SA6-SB-3.0-4.0 *Collected:* 8/17/2011 10:06:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0076	U	0.0076	MDL	0.109	PQL	mg/Kg	UJ	FD

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

Sample ID: EB-SA6-SB-081711 *Collected:* 8/17/2011 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	2.49		0.506	MDL	1.01	PQL	ng/L	J	S

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

Sample ID: EB-SA6-SB-081711 *Collected:* 8/17/2011 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
DIETHYLENE GLYCOL	20	U	20	MDL	200	PQL	mg/L	UJ	H
ETHYLENE GLYCOL	20	U	20	MDL	200	PQL	mg/L	UJ	H
Propylene glycol	20	U	20	MDL	200	PQL	mg/L	UJ	H

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

Sample ID: DUP12-SA6-QC-081711 *Collected:* 8/17/2011 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 (C21-C30)	0.77	J	0.43	MDL	1.3	PQL	mg/Kg	UJ	B, FD
EFH (C30-C40)	2.4		0.43	MDL	1.3	PQL	mg/Kg	UJ	B, 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: DE226 **Laboratory: LL**

EDD Filename: PrepDE226_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-221-SA6-SB-1.0-2.0 *Collected:* 8/17/2011 10:55:00 *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)	0.62	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z, L
EFH (C15-C20)	1.8		0.43	MDL	1.3	PQL	mg/Kg	J	L
EFH (C21-C30)	0.49	J	0.43	MDL	1.3	PQL	mg/Kg	U	B
EFH (C30-C40)	0.88	J	0.43	MDL	1.3	PQL	mg/Kg	U	B

Sample ID: SL-223-SA6-SB-2.5-3.5 *Collected:* 8/17/2011 11:56:00 *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)	2.2		0.42	MDL	1.3	PQL	mg/Kg	U	B

Sample ID: SL-224-SA6-SB-3.0-4.0 *Collected:* 8/17/2011 10:06:00 *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)	3.7		0.44	MDL	1.3	PQL	mg/Kg	J	Q, Q, FD
EFH (C30-C40)	9.6		0.44	MDL	1.3	PQL	mg/Kg	J	Q, FD

Sample ID: SL-224-SA6-SB-3.0-4.0 *Collected:* 8/17/2011 10:06:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.5	U	5.5	MDL	11	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.5	U	5.5	MDL	11	PQL	mg/Kg	UJ	Q

Sample ID: SL-226-SA6-SB-3.5-4.5 *Collected:* 8/17/2011 2:53:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	2.0		0.42	MDL	1.3	PQL	mg/Kg	U	B
EFH (C30-C40)	2.2		0.42	MDL	1.3	PQL	mg/Kg	U	B

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: DUP12-SA6-QC-081711 *Collected:* 8/17/2011 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
AROCLOR 1254	0.35	U	0.35	MDL	1.8	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: DE226 **Laboratory: LL**

EDD Filename: PrepDE226_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-221-SA6-SB-1.0-2.0 *Collected:* 8/17/2011 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	0.55	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-223-SA6-SB-2.5-3.5 *Collected:* 8/17/2011 11:56:00 *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	1.0	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-224-SA6-SB-3.0-4.0 *Collected:* 8/17/2011 10:06:00 *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	0.40	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z, FD

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: DUP12-SA6-QC-081711 *Collected:* 8/17/2011 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
Diethylphthalate	85	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-224-SA6-SB-3.0-4.0 *Collected:* 8/17/2011 10:06:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1300	U	1300	MDL	3700	PQL	ug/Kg	R	Q, Q

Method Category: SVOA

Method: 8270C SIM **Matrix: AQ**

Sample ID: EB-SA6-SB-081711 *Collected:* 8/17/2011 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	0.10	J	0.048	MDL	0.95	PQL	ug/L	J	Z
Diethylphthalate	0.22	J	0.048	MDL	0.95	PQL	ug/L	J	Z
Di-n-butylphthalate	0.69	J	0.048	MDL	0.95	PQL	ug/L	J	Z
Di-n-octylphthalate	0.073	J	0.048	MDL	0.95	PQL	ug/L	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: DE226 **Laboratory: LL**

EDD Filename: PrepDE226_v1 **eQAPP Name: CDM_SSFL_110509**

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

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

Sample ID: DUP12-SA6-QC-081711 *Collected:* 8/17/2011 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	0.90	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, FD
PHENANTHRENE	0.89	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z, FD

Sample ID: SL-224-SA6-SB-3.0-4.0 *Collected:* 8/17/2011 10:06:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.36	U	0.36	MDL	1.8	PQL	ug/Kg	UJ	FD
PHENANTHRENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	FD

Method Category: SVOA
Method: 8330A **Matrix: AQ**

Sample ID: EB-SA6-SB-081711 *Collected:* 8/17/2011 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
Tetryl	0.40	U	0.40	MDL	0.60	PQL	ug/L	UJ	L

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

Sample ID: DUP12-SA6-QC-081711 *Collected:* 8/17/2011 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
ETHANOL	110	U	110	MDL	530	PQL	ug/Kg	UJ	FD

Sample ID: SL-224-SA6-SB-3.0-4.0 *Collected:* 8/17/2011 10:06:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	160	J	110	MDL	550	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE226 **Laboratory: LL**

EDD Filename: PrepDE226_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **VOA**

Method: **8260B** ***Matrix:*** **AQ**

Sample ID: **EB-SA6-SB-081711** ***Collected:*** **8/17/2011 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*
CHLOROETHANE	1	U	1	MDL	5	PQL	ug/L	UJ	L

* 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: DE226 **Laboratory: LL**

EDD Filename: PrepDE226_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DE226 **Laboratory: LL**

EDD Filename: PrepDE226_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

Data Qualifier Summary

Lab Reporting Batch ID: DE226 **Laboratory: LL**

EDD Filename: PrepDE226_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE226

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE226 **Laboratory: LL**

EDD Filename: DE226_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8015M **Preparation Method: 5030B**

Matrix: AQ

Sample ID	*Type*	*Actual*	*Criteria*	*Units*	*Flag*
EB-SA6-SB-081711 (REA)	Sampling To Analysis	8.00	7.00	DAYS	J (all detects)
EB-SA6-SB-081711 (REA2)		13.00	7.00	DAYS	UJ (all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE226 **Laboratory: LL**

EDD Filename: DE226_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23048AB221844	8/19/2011 6:44:00 PM	BORON	0.0025 mg/L	EB-SA6-SB-081711

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-081711(RES)	BORON	0.0038 mg/L	0.0038U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23508CB221950	8/24/2011 7:50:00 PM	CALCIUM	4.72 mg/Kg	DUP12-SA6-QC-081711
		IRON	9.94 mg/Kg	SL-154-SA6-SB-3.0-4.0
		MAGNESIUM	0.485 mg/Kg	SL-221-SA6-SB-1.0-2.0
		MANGANESE	0.0738 mg/Kg	SL-223-SA6-SB-2.5-3.5
		PHOSPHORUS	1.30 mg/Kg	SL-224-SA6-SB-3.0-4.0
		STRONTIUM	0.0252 mg/Kg	SL-226-SA6-SB-3.5-4.5
		TIN	1.68 mg/Kg	

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
DUP12-SA6-QC-081711(REA)	TIN	2.80 mg/Kg	2.80U mg/Kg
SL-154-SA6-SB-3.0-4.0(REA)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-221-SA6-SB-1.0-2.0(REA)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-223-SA6-SB-2.5-3.5(REA)	TIN	2.72 mg/Kg	2.72U mg/Kg
SL-224-SA6-SB-3.0-4.0(REA)	TIN	3.77 mg/Kg	3.77U mg/Kg
SL-226-SA6-SB-3.5-4.5(REA)	TIN	2.80 mg/Kg	2.80U 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	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

Method Blank Outlier Report

Lab Reporting Batch ID: DE226 **Laboratory: LL**

EDD Filename: DE226_v1 **eQAPP Name: CDM_SSFL_110509**

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	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

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
DUP12-SA6-QC-081711(REA2)	EFH (C21-C30)	0.77 mg/Kg	1.3U mg/Kg
DUP12-SA6-QC-081711(REA2)	EFH (C30-C40)	2.4 mg/Kg	2.4U mg/Kg
SL-221-SA6-SB-1.0-2.0(REA2)	EFH (C21-C30)	0.49 mg/Kg	1.3U mg/Kg
SL-221-SA6-SB-1.0-2.0(REA2)	EFH (C30-C40)	0.88 mg/Kg	1.3U mg/Kg
SL-223-SA6-SB-2.5-3.5(REA2)	EFH (C30-C40)	2.2 mg/Kg	2.2U mg/Kg
SL-226-SA6-SB-3.5-4.5(REA2)	EFH (C21-C30)	2.0 mg/Kg	2.0U mg/Kg
SL-226-SA6-SB-3.5-4.5(REA2)	EFH (C30-C40)	2.2 mg/Kg	2.2U mg/Kg

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE226 **Laboratory: LL**

EDD Filename: DE226_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA6-SB-081711(RES)	8/17/2011 1:00:00 PM	BORON	0.0038 mg/L	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

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-221-SA6-SB-1.0-2.0(REA)	BORON	0.594 mg/Kg	0.594U mg/Kg
SL-223-SA6-SB-2.5-3.5(REA)	BORON	0.600 mg/Kg	0.600U mg/Kg
SL-226-SA6-SB-3.5-4.5(REA)	BORON	0.989 mg/Kg	0.989U mg/Kg

Matrix Spike/Matrix 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	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-224-SA6-SB-3.0-4.0MS **SL-224-SA6-SB-3.0-4.0MSD** (SL-224-SA6-SB-3.0-4.0)	DIETHYLENE GLYCOL ETHYLENE GLYCOL	34 -	14 53	59.00-109.00 63.00-107.00	87 (20.00) 26 (20.00)	DIETHYLENE GLYCOL ETHYLENE GLYCOL	J (all detects) UJ (all non-detects)
SL-224-SA6-SB-3.0-4.0MS **SL-224-SA6-SB-3.0-4.0MSD** (SL-224-SA6-SB-3.0-4.0)	EFH (C12-C14) EFH (C15-C20) EFH (C8-C11)	342 991 -	- 134 -	49.00-123.00 49.00-123.00 49.00-123.00	106 (20.00) 152 (20.00) 43 (20.00)	EFH (C12-C14) EFH (C15-C20) EFH (C8-C11)	J(all detects)
SL-224-SA6-SB-3.0-4.0MS **SL-224-SA6-SB-3.0-4.0MSD** (SL-224-SA6-SB-3.0-4.0)	EFH (C30-C40)	-99	-133	49.00-123.00	-	EFH (C30-C40)	J(all detects) R(all non-detects)
SL-224-SA6-SB-3.0-4.0MSD (SL-224-SA6-SB-3.0-4.0)	EFH (C21-C30)	-	20	49.00-123.00	39 (20.00)	EFH (C21-C30)	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-224-SA6-SB-3.0-4.0MSD (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)	VANADIUM	-	239	75.00-125.00	-	VANADIUM	No Qual, >4x
SL-224-SA6-SB-3.0-4.0MS **SL-224-SA6-SB-3.0-4.0MSD** (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	22	22	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects) post spike = 92%
SL-224-SA6-SB-3.0-4.0MS **SL-224-SA6-SB-3.0-4.0MSD** (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)	ARSENIC BERYLLIUM LEAD THALLIUM ZINC	- 69 73 - 65	471 - 241 - 138	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	48 (20.00) - 32 (20.00) 21 (20.00) -	ARSENIC BERYLLIUM LEAD THALLIUM ZINC	J(all detects) UJ(all non-detects) As, Zn, No Qual %R, >4x
SL-224-SA6-SB-3.0-4.0MS **SL-224-SA6-SB-3.0-4.0MSD** (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)	BARIUM	-44	-68	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE226 **Laboratory: LL**

EDD Filename: DE226_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-224-SA6-SB-3.0-4.0MS **SL-224-SA6-SB-3.0-4.0MSD** (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)	PHOSPHORUS POTASSIUM TITANIUM	149 - 144	219 129 283	75.00-125.00 75.00-125.00 75.00-125.00	- - -	PHOSPHORUS POTASSIUM TITANIUM	J(all detects) P, Ti, No Qual, >4x
SL-224-SA6-SB-3.0-4.0MS **SL-224-SA6-SB-3.0-4.0MSD** (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 MAGNESIUM MANGANESE	3 -1074 -419 -66	406 4119 -247 -13	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM IRON MAGNESIUM MANGANESE	No Qual, >4x
SL-224-SA6-SB-3.0-4.0MS (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)	CALCIUM	53	-	75.00-125.00	-	CALCIUM	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-224-SA6-SB-3.0-4.0MS (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)	FLUORIDE	15	-	80.00-120.00	-	FLUORIDE	J(all detects) R(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-224-SA6-SB-3.0-4.0MS **SL-224-SA6-SB-3.0-4.0MSD** (SL-224-SA6-SB-3.0-4.0)	BENZIDINE	20	0	35.00-141.00	200 (30.00)	BENZIDINE	J(all detects) R(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE226 **Laboratory: LL**

EDD Filename: DE226_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-224-SA6-SB-3.0-4.0DUP	IRON	23	20.00	
(DUP12-SA6-QC-081711	MANGANESE	21	20.00	
SL-154-SA6-SB-3.0-4.0	Zirconium	55	20.00	J (all detects)
SL-221-SA6-SB-1.0-2.0				UJ (all non-detects)
SL-223-SA6-SB-2.5-3.5				
SL-224-SA6-SB-3.0-4.0				Zr, No Qual,
SL-226-SA6-SB-3.5-4.5)				OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-224-SA6-SB-3.0-4.0DUP	ARSENIC	66	20.00	
(DUP12-SA6-QC-081711	COBALT	40	20.00	J(all detects)
SL-154-SA6-SB-3.0-4.0	LEAD	23	20.00	UJ(all non-detects)
SL-221-SA6-SB-1.0-2.0	MOLYBDENUM	0.3211 mg/Kg	0.220 mg/Kg	
SL-223-SA6-SB-2.5-3.5	SILVER	73	20.00	Ag, No Qual,
SL-224-SA6-SB-3.0-4.0	THALLIUM	0.2426 mg/Kg	0.220 mg/Kg	OK by Difference
SL-226-SA6-SB-3.5-4.5)				

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-224-SA6-SB-3.0-4.0DUP	MERCURY	200	20.00	
(DUP12-SA6-QC-081711				
SL-154-SA6-SB-3.0-4.0				
SL-221-SA6-SB-1.0-2.0				No Qual,
SL-223-SA6-SB-2.5-3.5				OK by Difference
SL-224-SA6-SB-3.0-4.0				
SL-226-SA6-SB-3.5-4.5)				

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

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: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12352AQ241044A P12352AY241126A (EB-SA6-SB-081711)	Nitroglycerin PETN	129 138	129 138	80.00-120.00 80.00-120.00	- -	Nitroglycerin PETN	J(all detects)
P12352AQ241044A P12352AY241126A (EB-SA6-SB-081711)	Tetryl	56	49	72.00-141.00	-	Tetryl	J(all detects) UJ(all non-detects)

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-081711)	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: 7470A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23013CY221556 (EB-SA6-SB-081711)	MERCURY	-	89	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
P5WGLCSQ261638 P5WGLCSY261711 (EB-SA6-SB-081711)	ACENAPHTHYLENE ANTHRACENE FLUORENE	- 114 -	111 112 116	70.00-110.00 66.00-111.00 75.00-114.00	- - -	ACENAPHTHYLENE ANTHRACENE FLUORENE	J(all detects)

Method: 8260B
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSL42Y211303A (EB-SA6-SB-081711)	CHLOROETHANE	-	48	49.00-129.00	-	CHLOROETHANE	J(all detects) UJ(all non-detects)

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

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)
PHENANTHRENE	1.8 U	0.89	200	50.00	UJ(all non-detects)

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 **Laboratory: LL**

EDD Filename: DE226_v1 **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 #: 26533O4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/7/11
SDG #: DE226 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
2nd Reviewer: A

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 qual 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 (No qual in ZR)
VII.	Duplicate Sample Analysis	SW	Hg, Ag, Zr <4X. (Mo, Tl, by difference T/nT)
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: _____

LDC #: 26533O4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: ALH
2nd Reviewer: [illegible]

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: 8/17/11 Soil factor applied 100x

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

Analyte	Blank ID	Sample Identification											
	4	Action Level	2	3	5								
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".

Lancaster Laboratories

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 Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		27345.5805		27351.6378		28212.7529		218.0835	213.8489	MG/KG	3		406		3			20	P
Antimony	121	0.1453	B	0.4364		0.4272		1.3085	1.2708	MG/KG	22	N	22	N	2		75 - 125	20	MS
Arsenic	75	11.3478		13.0959		21.3275		2.1808	2.1179	MG/KG	80		471		48	*		20	MS
Barium	137	138.4488		133.6634		131.2479		10.9042	10.5896	MG/KG	-44		-68		2			20	MS
Beryllium	9	1.2746		1.8722		1.9665		0.8723	0.8472	MG/KG	69	N	82		5		75 - 125	20	MS
Boron		25.7339	B	223.6555		228.3425		218.0835	213.8489	MG/KG	91		95		2		84 - 115	20	P
Cadmium	111	0.0804	B	1.1493		1.1774		1.0904	1.0590	MG/KG	98		104		2		75 - 125	20	MS
Calcium		5011.8245		5240.9561		5338.7366		436.1670	427.6977	MG/KG	53		76		2			20	P
Chromium	52	40.9183		52.3837		50.9361		10.9042	10.5896	MG/KG	105		95		3		75 - 125	20	MS
Cobalt	59	8.1180		62.4373		67.4983		54.5209	52.9482	MG/KG	100		112		8		75 - 125	20	MS
Copper	63	23.5302		34.9370		32.7431		10.9042	10.5896	MG/KG	105		87		6		75 - 125	20	MS
Iron		38062.8953		36891.2472		42466.7251		109.0417	106.9244	MG/KG	-1074		4119		14			20	P
Lead	208	11.2547		13.6498		18.9110		3.2713	3.1769	MG/KG	73	N	241	N	32	*	75 - 125	20	MS
Lithium		46.7680		142.4609		142.8649		109.0417	106.9244	MG/KG	88		90		0		82 - 114	20	P
Magnesium		9256.7595		8343.0257		8729.0278		218.0835	213.8489	MG/KG	-419		-247		5			20	P
Manganese		375.1788		339.4022		367.9708		54.5209	53.4622	MG/KG	-66		-13		8			20	P
Mercury		0.0078	U	0.1847		0.1924		0.1743	0.1815	MG/KG	106		106		4		65 - 135	20	CV
Molybdenum	98	0.5075		10.2979		10.8205		10.9042	10.5896	MG/KG	90		97		5		75 - 125	20	MS
Nickel	60	23.0430		33.2359		34.4798		10.9042	10.5896	MG/KG	93		108		4		75 - 125	20	MS
Phosphorus		490.8841		653.5471		724.9583		109.0417	106.9244	MG/KG	149		219		10			20	P
Potassium		2872.2358		3766.4653		4250.7805		1090.4174	1069.2443	MG/KG	82		129	N	12		75 - 125	20	P
Selenium	78	0.2810	B	2.2441		2.4441		2.1808	2.1179	MG/KG	90		102		9		75 - 125	20	MS
Silver	107	0.0649	B	10.8606		10.5579		10.9042	10.5896	MG/KG	99		99		3		75 - 125	20	MS
Sodium		234.0854		1252.2114		1254.5101		1090.4174	1069.2443	MG/KG	93		95		0		75 - 125	20	P
Strontium		30.0225		132.7441		129.0139		109.0417	106.9244	MG/KG	94		93		3		75 - 115	20	P
Thallium	203	0.4270		0.7692		0.9457		0.4362	0.4236	MG/KG	78		122		21	*	75 - 125	20	MS
Tin		3.7674	B	371.0865		367.9066		436.1670	427.6977	MG/KG	84		85		1		80 - 110	20	P
Titanium		1463.7763		1621.2490		1766.5626		109.0417	106.9244	MG/KG	144		283		9			20	P
Vanadium	51	70.5269		80.8654		95.7938		10.9042	10.5896	MG/KG	95		239		17			20	MS
Zinc	66	96.2174		103.3498		110.8311		10.9042	10.5896	MG/KG	65		138		7			20	MS
Zirconium		1.5789	B	101.5844		104.1476		109.0417	106.9244	MG/KG	92		96		2		75 - 125	20	P

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:
N = Matrix Spike OOS, * = Duplicate OOS

Post Spike Sb: 92%

Lancaster Laboratories

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		difference 40	*	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		3		P
Thallium	203	0.1	0.4270		0.6696		difference 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: difference 0,3211 mg/g (≤ 0,2500)
Tl = ↓ 0,2426 ↓ ↓

DE226 3597

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

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

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

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

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

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

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

Data Qualifier Summary

Lab Reporting Batch ID: DE227 **Laboratory: LL**

EDD Filename: DE227_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

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

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

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: 11/7/11
SDG #: DE227 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MM
2nd Reviewer:

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	No qual by ICB/CCB.
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	3 See DCN
VII.	Duplicate Sample Analysis	SW	3
VIII.	Laboratory Control Samples (LCS)	N	GRM
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-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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

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

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

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

Data Qualifier Summary

Lab Reporting Batch ID: DE228 **Laboratory: LL**

EDD Filename: DE228_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

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

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

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	141	-	80.00-120.00	-	ALUMINUM	No Qual, SRM within QC Limits
	IRON	135	-	80.00-120.00	-	IRON	
	TITANIUM	167	-	80.00-120.00	-	TITANIUM	

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** Date: 11/9/17
SDG #: DE228 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MM
2nd Reviewer:

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	No final w/ MB/ICB.
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	See DE 228
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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

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

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-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

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

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

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

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

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

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

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

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

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

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

Data Qualifier Summary

Lab Reporting Batch ID: DE229 **Laboratory:** LL

EDD Filename: DE229_v1 **eQAPP Name:** CDM_SSFL_110509

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

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 **Method:** 8270C **Matrix:** SO

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

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

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

Data Qualifier Summary

Lab Reporting Batch ID: DE229 **Laboratory: LL**

EDD Filename: DE229_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

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

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

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	7.55 mg/Kg	SL-007-SA5DN-SS-0.0-0.5
		IRON	4.64 mg/Kg	SL-215-SA6-SB-4.0-5.0
		MANGANESE	0.0441 mg/Kg	SL-241-SA6-SB-4.0-5.0
		PHOSPHORUS	1.52 mg/Kg	SL-241-SA6-SB-9.0-10.0
		STRONTIUM	0.0412 mg/Kg	SL-242-SA6-SB-4.0-5.0
		TIN	1.84 mg/Kg	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	0.15 ug/Kg	SL-279-SA6-SB-1.0-2.0
		METHYLENE CHLORIDE	0.62 ug/Kg	SL-279-SA6-SB-4.0-5.0
				SL-279-SA6-SB-9.0-10.0

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

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

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 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	28	20.00	J(all detects) UJ(all non-detects)
	CADMIUM	27	20.00	
	SELENIUM	34	20.00	Cd, Se, No Qual, OK by Difference

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

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

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	

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: 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) EFH (C8-C11)	J J	2.8 2.9	6.3 6.3	PQL PQL	mg/Kg mg/Kg	J (all detects)
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 AROCLOR 1260 Aroclor 5460	J J J	1.5 1.1 3.2	1.8 1.8 3.5	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-279-SA6-SB-9.0-10.0	AROCLOR 1254 AROCLOR 1260 Aroclor 5460	J J J	0.82 0.90 2.8	1.8 1.8 3.6	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
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 TOLUENE	J J	1.2 0.36	4.5 4.5	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-279-SA6-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	0.82 0.27	4.2 4.2	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-279-SA6-SB-9.0-10.0	METHYLENE CHLORIDE TOLUENE	J J	1.0 0.19	4.1 4.1	PQL PQL	ug/Kg ug/Kg	J (all detects)

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)

Reporting Limit Outliers

Lab Reporting Batch ID: DE229 **Laboratory: LL**

EDD Filename: DE229_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag

LDC #: 26533R4 **VALIDATION COMPLETENESS WORKSHEET** Date: 4/7/11
SDG #: DE229 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
2nd Reviewer:

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	P	
III.	Calibration	N	
IV.	Blanks	SW	Na found by 2XB/CRB
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 MS	21		31	
2	SL-241-SA6-SB-4.0-5.0	12	1 MSD	22		32	
3	SL-241-SA6-SB-9.0-10.0	13	✓ Dup	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:

Lancaster Laboratories

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 Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		18852.5191		24164.3920		28630.1947		221.0580	216.8069	MG/KG	2403		4510		17			20	P
Antimony	121	0.0810	U	0.3696		0.2797		1.3263	1.3008	MG/KG	28	N	22	N	28	*	75 - 125	20	MS
Arsenic	75	7.2219		9.3176		7.2413		2.2106	2.1681	MG/KG	95		1	N	25	*	75 - 125	20	MS
Barium	137	132.8138		163.4945		137.6507		11.0529	10.8403	MG/KG	278		45		17			20	MS
Beryllium	9	0.9971		1.9937		1.7106		0.8842	0.8672	MG/KG	113		82		15		75 - 125	20	MS
Boron		1.4131	B	223.9163		218.2606		221.0580	216.8069	MG/KG	101		100		3		84 - 115	20	P
Cadmium	111	0.1054	B	1.4853		1.3247		1.1053	1.0840	MG/KG	125		112		11		75 - 125	20	MS
Calcium		2555.5522		3561.3359		4197.3463		442.1160	433.6137	MG/KG	227		379		16			20	P
Chromium	52	27.3202		39.6136		36.0767		11.0529	10.8403	MG/KG	111		81		9		75 - 125	20	MS
Cobalt	59	7.1037		72.2417		57.9308		55.2645	54.2017	MG/KG	118		94		22	*	75 - 125	20	MS
Copper	63	12.6662		28.3617		24.0005		11.0529	10.8403	MG/KG	142	N	105		17		75 - 125	20	MS
Iron		23638.4146		25913.6404		27123.0021		110.5290	108.4034	MG/KG	2058		3214		5			20	P
Lead	208	8.7740		13.3652		9.9861		3.3159	3.2521	MG/KG	138	N	37	N	29	*	75 - 125	20	MS
Lithium		25.5021		137.6948		142.1364		110.5290	108.4034	MG/KG	102		108		3		82 - 114	20	P
Magnesium		4968.2020		5785.6975		6524.8406		221.0580	216.8069	MG/KG	370		718		12			20	P
Manganese		230.8217		343.0356		284.9558		55.2645	54.2017	MG/KG	203		100		18			20	P
Mercury		0.0078	U	0.1915		0.1829		0.1824	0.1810	MG/KG	105		101		5		65 - 135	20	CV
Molybdenum	98	0.4551		12.8634		10.8208		11.0529	10.8403	MG/KG	112		96		17		75 - 125	20	MS
Nickel	60	16.7599		32.8492		27.6429		11.0529	10.8403	MG/KG	146	N	100		17		75 - 125	20	MS
Phosphorus		220.5186		351.6248		322.5848		110.5290	108.4034	MG/KG	119		94		9		75 - 125	20	P
Potassium		2338.4770		3685.3958		3676.6998		1105.2899	1084.0343	MG/KG	122		123		0		75 - 125	20	P
Selenium	78	0.1060	B	2.6682		2.1572		2.2106	2.1681	MG/KG	116		95		21	*	75 - 125	20	MS
Silver	107	0.0722	B	13.5752		11.9179		11.0529	10.8403	MG/KG	122		109		13		75 - 125	20	MS
Sodium		204.5807		1278.0965		1288.6924		1105.2899	1084.0343	MG/KG	97		100		1		75 - 125	20	P
Strontium		23.0832		138.0209		139.5141		110.5290	108.4034	MG/KG	104		107		1		75 - 115	20	P
Thallium	203	0.4006		0.8738		0.7593		0.4421	0.4336	MG/KG	107		83		14		75 - 125	20	MS
Tin		2.6970	B	394.7819		388.9537		442.1160	433.6137	MG/KG	89		89		1		80 - 110	20	P
Titanium		1228.3983		1517.3099		1514.1369		110.5290	108.4034	MG/KG	261		264		0			20	P
Vanadium	51	56.2165		67.5995		56.9768		11.0529	10.8403	MG/KG	103		7		17			20	MS
Zinc	66	72.9414		88.6443		76.7930		11.0529	10.8403	MG/KG	142		36		14			20	MS
Zirconium		1.3321	B	109.3762		108.3189		110.5290	108.4034	MG/KG	98		99		1		75 - 125	20	P

J/R

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:
N = Matrix Spike OOS, * = Duplicate OOS

* Post spike Sb = 61
As = 66

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE229
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6384465BKG
% Solids for Duplicate: 88.7
Batch ID(s): P23608E, P23611A
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6384465DUP
% Solids for Sample: 88.7

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

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

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

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

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

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

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

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

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

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

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

Data Qualifier Summary

Lab Reporting Batch ID: DE230 **Laboratory: LL**

EDD Filename: DE230_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

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

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

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

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

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	-	140	78.00-126.00	-	DIETHYLENE GLYCOL	J (all detects)
	ETHYLENE GLYCOL	-	137	80.00-124.00	-	ETHYLENE GLYCOL	
	Propylene glycol	-	135	80.00-120.00	-	Propylene glycol	

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	129	129	80.00-120.00	-	Nitroglycerin	J(all detects)
	PETN	138	138	80.00-120.00	-	PETN	

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)

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

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**

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
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)

LDC #: 26533S4

SDG #: DE230

Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET

ADR

Date: 11/2/11

Page: 1 of 1

Reviewer: W

2nd Reviewer: A

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 qual by MB/ICB
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	See DZ09
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	N A	SW
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	TB=5

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-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: _____

LDC #: 26533S4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: [illegible]
2nd Reviewer: [illegible]

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: 8/23/11 Soil factor applied 100x

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

Analyte	Blank ID	Sample Identification											
	5	Action Level	1	2	3	4							
B	5.2	2.6	0.77	0.59	0.60	1.2							
Pb	0.093	0.0465											
Sr	0.22	0.11											

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

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

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	36 ug/L	SL-066-SA6-SB-2.0-3.0
		CHLOROFORM	1 ug/L	SL-197-SA6-SB-4.0-5.0
		METHYLENE CHLORIDE	13 ug/L	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

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

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
BARIUM	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

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

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

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

Data Qualifier Summary

Lab Reporting Batch ID: DE231 **Laboratory: LL**

EDD Filename: DE231_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

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

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

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

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

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	-	140	78.00-126.00	-	DIETHYLENE GLYCOL	J (all detects)
	ETHYLENE GLYCOL	-	137	80.00-124.00	-	ETHYLENE GLYCOL	
	Propylene glycol	-	135	80.00-120.00	-	Propylene glycol	

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	129	129	80.00-120.00	-	Nitroglycerin	J(all detects)
	PETN	138	138	80.00-120.00	-	PETN	

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	135	-	80.00-120.00	-	ALUMINUM	No Qual, SRM within QC Limits
	TITANIUM	160	-	80.00-120.00	-	TITANIUM	

Surrogate Outlier Report

Lab Reporting Batch ID: DE231 **Laboratory: LL**

EDD Filename: DE231_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-082411	N-Nitrosodimethylamine-d6	187	50.00-150.00	All Target Analytes	J (all detects)

Method: 8315A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
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: 11/3/11
SDG #: DE231 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: ~
2nd Reviewer: ~

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	Na qual by 2xB/crB
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ca, Fe, Mg, Mn, Ti, Ba, V, Zn >4X (Na qual by R) Report
VII.	Duplicate Sample Analysis	NA	Sb <5X
VIII.	Laboratory Control Samples (LCS)	N	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Co, Cu, Pb, Ni, Zn J/nJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	SW	EB=4

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 (ZnP)	21		31	
2	SL-197-SA6-SB-4.0-5.0	12	MSD	22		32	
3	SL-208-SA6-SB-4.0-5.0	13	DUP	23		33	
4	EB-SA6-SB-082411	14	(Li, P, Zr	24		34	
5	#2 MS (ZnP/MS)	15	reprp. with PB 33	25	)	35	
6	MSD	16		26		36	
7	DUP	17		27		37	
8	#3 MS (Hg)	18		28		38	
9	MSD	19		29		39	
10	DUP	20		30		40	

Notes:

LDC #: 26533T4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: [illegible]
2nd Reviewer: [illegible]

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	Sample Identification											
	4	Action Level											
B	4.1	2.05											

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".

Lancaster Laboratories

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

		BKG Sample		MS Sample		MSD Sample		MS Spike	MSD Spike		MS		MSD				Control Limit		
Analyte	Mass	Result	C	Result	C	Result	C	Added	Added	Units	%R	Q	%R	Q	RPD	Q	%R	RPD	M
Aluminum		18628.0211		21435.4206		21144.8260		206.4857	206.4857	MG/KG	1360		1219		1			20	P
Boron		0.3717	U	199.9639		201.2286		206.4857	206.4857	MG/KG	97		97		1		84 - 115	20	P
Calcium		2081.3110		2688.1302		2627.6732		412.9714	412.9714	MG/KG	147		132		2			20	P
Iron		19873.6018		21179.0644		20727.0754		103.2429	103.2429	MG/KG	1264		827		2			20	P
Magnesium		4714.8670		5273.2725		5157.6777		206.4857	206.4857	MG/KG	270		214		2			20	P
Manganese		245.5187		324.9868		304.6821		51.6214	51.6214	MG/KG	154		115		6			20	P
Potassium		1960.4435		3323.7448		3225.0209		1032.4286	1032.4286	MG/KG	132	N	122		3		75 - 125	20	P
Sodium		83.3614	B	1065.7512		1057.4474		1032.4286	1032.4286	MG/KG	95		94		1		75 - 125	20	P
Strontium		17.6060		120.4452		118.8356		103.2429	103.2429	MG/KG	100		98		1		75 - 115	20	P
Tin		2.3622	B	364.7446		359.2191		412.9714	412.9714	MG/KG	88		86		2		80 - 110	20	P
Titanium		1139.6876		1392.9661		1368.5388		103.2429	103.2429	MG/KG	245		222		2			20	P

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METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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

Lancaster Laboratories

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

		BKG Sample		MS Sample		MSD Sample		MS Spike	MSD Spike		MS		MSD				Control Limit		
Analyte	Mass	Result	C	Result	C	Result	C	Added	Added	Units	%R	Q	%R	Q	RPD	Q	%R	RPD	M
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

DE231

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:
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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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-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 *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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-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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

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: 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

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

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-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

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

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

Data Qualifier Summary

Lab Reporting Batch ID: DE232 **Laboratory: LL**

EDD Filename: DE232_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

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**

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

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

Data Qualifier Summary

Lab Reporting Batch ID: DE232 **Laboratory: LL**

EDD Filename: DE232_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

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

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

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	11.0 mg/Kg	SL-041-SA6-SB-3.0-4.0
		IRON	2.72 mg/Kg	SL-195-SA6-SB-1.0-2.0
		MAGNESIUM	0.982 mg/Kg	SL-246-SA6-SB-4.0-5.0
		PHOSPHORUS	1.33 mg/Kg	SL-247-SA6-SB-4.0-5.0
		STRONTIUM	0.0530 mg/Kg	SL-257-SA6-SB-1.5-2.5
		TIN	1.69 mg/Kg	

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 AROCLOR 1260	J J	1.2 1.7	1.8 1.8	PQL PQL	ug/Kg 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 BENZO(K)FLUORANTHENE CHRYSENE PHENANTHRENE PYRENE	J J J J J	1.4 0.80 1.0 1.1 1.4	1.7 1.7 1.7 1.7 1.7	PQL PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)

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	

LDC #: 26859C4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/27/11
SDG #: DE232 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
2nd Reviewer: A

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 V
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	As, Ba, Co, Cu, Pb, Ni D/U (from SDG DE233)
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-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: _____

LDC #: 26859C4

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 *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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-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 *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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 *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

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-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

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

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

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

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

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

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

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

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

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

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-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

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-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

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-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

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

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

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

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

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

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

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

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

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

Data Qualifier Summary

Lab Reporting Batch ID: DE233 **Laboratory: LL**

EDD Filename: DE233_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

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

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

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	11.0 mg/Kg	DUP13-SA6-QC-082611
		IRON	2.72 mg/Kg	SL-113-SA6-SB-4.0-5.0
		MAGNESIUM	0.982 mg/Kg	SL-113-SA6-SB-7.0-8.0
		PHOSPHORUS	1.33 mg/Kg	SL-250-SA6-SB-3.0-4.0
		STRONTIUM	0.0530 mg/Kg	SL-252-SA6-SB-4.0-5.0
		TIN	1.69 mg/Kg	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	51	20.00	No Qual, OK by Difference
	Nitrate-NO3	42	20.00	

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	85	20.00	J(all detects) UJ(all non-detects)
	MOLYBDENUM	41	20.00	
	NICKEL	61	20.00	
	SILVER	24	20.00	

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

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

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)

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

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

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	
EFH (C15-C20)	350	0.62	199	50.00	J(all detects)
EFH (C21-C30)	600	8.3	195	50.00	UJ(all non-detects)
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)
AROCLOR 1260	1500	4100	93	50.00	
Aroclor 5460	1300	1800 U	200	50.00	UJ(all non-detects)

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	
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	J(all detects)
DIBENZO(A,H)ANTHRACENE	4.7	8.8 U	200	50.00	UJ(all non-detects)
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	
	SELENIUM	J	0.200	0.414	PQL	mg/Kg	J (all detects)
	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 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/7/11
SDG #: DE233 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
2nd Reviewer: C

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 & Sr No fmk. Ti, V, Zn >4x MS fmk. SR
VIII.	Laboratory Control Samples (LCS)	SW	SR M. 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/nJ.
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:

LDC #: 26533B4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: 100x; Hg:167
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	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.

Lancaster Laboratories

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

		BKG Sample		MS Sample		MSD Sample		MS Spike	MSD Spike		MS		MSD				Control Limit		
Analyte	Mass	Result	C	Result	C	Result	C	Added	Added	Units	%R	Q	%R	Q	RPD	Q	%R	RPD	M
Aluminum		13914.3851		15016.6950		14911.0919		208.6615	204.6099	MG/KG	528		487		1			20	P
Antimony	121	8.4465		9.3179		6.8712		1.2277	1.2520	MG/KG	71		-126		30	*		20	MS
Arsenic	75	9.3804		15.4521		12.8598		2.0461	2.0866	MG/KG	297		167		18			20	MS
Barium	137	141.9038		173.2432		126.0316		10.2305	10.4331	MG/KG	306		-152		32	*		20	MS
Beryllium	9	0.8246		2.2057		2.2890		0.8184	0.8346	MG/KG	169	N	175	N	4		75 - 125	20	MS
Boron		0.6987	B	224.8088		218.5141		208.6615	204.6099	MG/KG	107		106		3		84 - 115	20	P
Cadmium	111	3.5393		7.1491		5.6297		1.0230	1.0433	MG/KG	353	N	200	N	24	*	75 - 125	20	MS
Calcium		3401.7218		4079.3759		3886.3515		417.3231	409.2197	MG/KG	162		118		5			20	P
Chromium	52	130.9531		77.0561		58.9260		10.2305	10.4331	MG/KG	-527		-690		27	*		20	MS
Cobalt	59	11.0023		94.4684		96.4225		51.1525	52.1654	MG/KG	163	N	164	N	2		75 - 125	20	MS
Copper	63	96.3243		553.4697		117.1426		10.2305	10.4331	MG/KG	4468		200		130	*		20	MS
Iron		21471.1674		21722.9674		20612.8198		104.3308	102.3049	MG/KG	241		-839		5			20	P
Lead	208	87.9770		95.6551		102.3798		3.0691	3.1299	MG/KG	250		460		7			20	MS
Lithium		21.7869		128.9476		125.0207		104.3308	102.3049	MG/KG	103		101		3		82 - 114	20	P
Magnesium		4485.3510		4501.7632		4334.1074		208.6615	204.6099	MG/KG	8		-74		4			20	P
Manganese		267.3831		351.0063		317.1668		52.1654	51.1525	MG/KG	160		97		10			20	P
Mercury		0.8634		1.0623		0.9931		0.1713	0.1727	MG/KG	116		75		7			20	CV
Molybdenum	98	3.8658		26.7220		20.7702		10.2305	10.4331	MG/KG	223	N	162	N	25	*	75 - 125	20	MS
Nickel	60	81.4066		64.9227		53.7095		10.2305	10.4331	MG/KG	-161		-265		19			20	MS
Phosphorus		475.5941		545.4131		523.0943		104.3308	102.3049	MG/KG	67		46		4			20	P
Potassium		3051.3632		4182.2909		4123.5005		1043.3077	1023.0493	MG/KG	108		105		1		75 - 125	20	P
Selenium	78	0.2066	B	3.3576		3.4575		2.0461	2.0866	MG/KG	154	N	156	N	3		75 - 125	20	MS
Silver	107	2.9732		21.2590		25.2480		10.2305	10.4331	MG/KG	179	N	214	N	17		75 - 125	20	MS
Sodium		176.7533		1239.7323		1182.0383		1043.3077	1023.0493	MG/KG	102		98		5		75 - 125	20	P
Strontium		25.3246		130.8558		126.5819		104.3308	102.3049	MG/KG	101		99		3		75 - 115	20	P
Thallium	203	0.3062		0.9508		0.9688		0.4092	0.4173	MG/KG	158	N	159	N	2		75 - 125	20	MS
Tin		3.6891	B	388.1595		376.1681		417.3231	409.2197	MG/KG	92		91		3		80 - 110	20	P
Titanium		1036.3541		1180.9478		1089.5295		102.3049	101.3212	MG/KG	141		52		8			20	P
Vanadium	51	45.2075		64.5544		66.1666		10.2305	10.4331	MG/KG	189		201		2			20	MS
Zinc	66	470.8775		589.0718		384.2502		10.2305	10.4331	MG/KG	1155		-830		42	*		20	MS
Zirconium		2.9842	B	106.7784		103.1080		104.3308	102.3049	MG/KG	99		98		3		75 - 125	20	P

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:
N = Matrix Spike OOS, * = Duplicate OOS

Lancaster Laboratories

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

JHt/p

DE233 3644

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE233
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6389710BKG
% Solids for Duplicate: 95.0
Batch ID(s): P24308B, P24326A, P24311B, P25008A
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6389713DUP
% Solids for Sample: 94.9

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		162	*	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:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	FLAGS:
AF = Cold Vapor Atomic Fluorescence	* = Duplicate Out of Spec

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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-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 *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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 *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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-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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

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

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

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

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**

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
BARIUM	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

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**

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

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

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

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: 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

Data Qualifier Summary

Lab Reporting Batch ID: DE234 **Laboratory: LL**

EDD Filename: DE234_v2. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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: 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

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

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	11.0 mg/Kg	SL-192-SA6-SB-4.0-5.0
		IRON	2.72 mg/Kg	SL-192-SA6-SB-9.0-10.0
		MAGNESIUM	0.982 mg/Kg	SL-249-SA6-SB-4.0-5.0
		PHOSPHORUS	1.33 mg/Kg	SL-253-SA6-SB-4.0-5.0
		STRONTIUM	0.0530 mg/Kg	SL-255-SA6-SB-2.0-3.0
		TIN	1.69 mg/Kg	

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)

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

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

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

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
P1LLLCSQ260806 (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	
	PYRENE	J	1.4	1.8	PQL	ug/Kg	
SL-192-SA6-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	0.84	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.75	1.8	PQL	ug/Kg	
	PYRENE	J	1.6	1.8	PQL	ug/Kg	
SL-253-SA6-SB-4.0-5.0	ANTHRACENE	J	0.46	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	19	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.93	1.7	PQL	ug/Kg	
SL-255-SA6-SB-2.0-3.0	ACENAPHTHENE	J	0.98	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	1.2	1.8	PQL	ug/Kg	
	PYRENE	J	0.78	1.8	PQL	ug/Kg	

LDC #: 26859D4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/27/11
SDG #: DE234 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MN
2nd Reviewer:

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	
VII.	Duplicate Sample Analysis	SW	
VIII.	Laboratory Control Samples (LCS)	~~SW~~	~~Ti, Sb, Mo, Tl~~
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 (SMPLS 2-33)
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: 5 of 1

1	SL-249-SA6-SB-4.0-5.0	11	MB	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:

LDC #: 26859D4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer:
2nd Reviewer:

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Sample Concentration units, unless otherwise noted: mg/Kg

Soil preparation factor applied: 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	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-252-SA6-SB-4.0-ft
(DE233)

Lancaster Laboratories

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 Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M	
Aluminum		13914.3851		15016.6950		14911.0919		208.6615	204.6099	MG/KG	528		487		1			20	P	
Antimony	121	8.4465		9.3179		6.8712		1.2277	1.2520	MG/KG	71		-126		30	*		20	MS	
Arsenic	75	9.3804		15.4521		12.8598		2.0461	2.0866	MG/KG	297		167		18			20	MS	
Barium	137	141.9038		173.2432		126.0316		10.2305	10.4331	MG/KG	306		-152		32	*		20	MS	
Beryllium	9	0.8246		2.2057		2.2890		0.8184	0.8346	MG/KG	169	N	175	N	4		75 - 125	20	MS	
Boron		0.6987	B	224.8088		218.5141		208.6615	204.6099	MG/KG	107		106		3		84 - 115	20	P	
Cadmium	111	3.5393		7.1491		5.6297		1.0230	1.0433	MG/KG	353	N	200	N	24	*	75 - 125	20	MS	
Calcium		3401.7218		4079.3759		3886.3515		417.3231	409.2197	MG/KG	162		118		5			20	P	
Chromium	52	130.9531		77.0561		58.9260		10.2305	10.4331	MG/KG	-527		-690		27	*		20	MS	
Cobalt	59	11.0023		94.4684		96.4225		51.1525	52.1654	MG/KG	163	N	164	N	2		75 - 125	20	MS	
Copper	63	96.3243		553.4697		117.1426		10.2305	10.4331	MG/KG	4468		200		130	*		20	MS	
Iron		21471.1674		21722.9674		20612.8198		104.3308	102.3049	MG/KG	241		-839		5			20	P	
Lead	208	87.9770		95.6551		102.3798		3.0691	3.1299	MG/KG	250		460		7			20	MS	
Lithium		21.7869		128.9476		125.0207		104.3308	102.3049	MG/KG	103		101		3		82 - 114	20	P	
Magnesium		4485.3510		4501.7632		4334.1074		208.6615	204.6099	MG/KG	8		-74		4			20	P	
Manganese		267.3831		351.0063		317.1668		52.1654	51.1525	MG/KG	160		97		10			20	P	
Mercury		0.8634		1.0623		0.9931		0.1713	0.1727	MG/KG	116		75		7			20	CV	
Molybdenum	98	3.8658		26.7220		20.7702		10.2305	10.4331	MG/KG	223	N	162	N	25	*	75 - 125	20	MS	
Nickel	60	81.4066		64.9227		53.7095		10.2305	10.4331	MG/KG	-161		-265		19			20	MS	
Phosphorus		475.5941		545.4131		523.0943		104.3308	102.3049	MG/KG	67		46		4			20	P	
Potassium		3051.3632		4182.2909		4123.5005		1043.3077	1023.0493	MG/KG	108		105		1		75 - 125	20	P	
Selenium	78	0.2066	B	3.3576		3.4575		2.0461	2.0866	MG/KG	154	N	156	N	3		75 - 125	20	MS	
Silver	107	2.9732		21.2590		25.2480		10.2305	10.4331	MG/KG	179	N	214	N	17		75 - 125	20	MS	
Sodium		176.7533		1239.7323		1182.0383		1043.3077	1023.0493	MG/KG	102		98		5		75 - 125	20	P	
Strontium		25.3246		130.8558		126.5819		104.3308	102.3049	MG/KG	101		99		3		75 - 115	20	P	
Thallium	203	0.3062		0.9508		0.9688		0.4092	0.4173	MG/KG	158	N	159	N	2		75 - 125	20	MS	
Tin		3.6891	B	388.1595		376.1681		417.3231	409.2197	MG/KG	92		91		3		80 - 110	20	P	
Titanium		1036.3541		1180.9478		1089.5295		102.3049	101.3212	MG/KG	141		52		8			20	P	
Vanadium	51	45.2075		64.5544		66.1666		10.2305	10.4331	MG/KG	189		201		2			20	MS	
Zinc	66	470.8775		589.0718		384.2502		10.2305	10.4331	MG/KG	1155		-830		42	*		20	MS	
Zirconium		2.9842	B	106.7784		103.1080		104.3308	102.3049	MG/KG	99		98		3		75 - 125	20	P	

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:
N = Matrix Spike OOS, * = Duplicate OOS

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE233
Matrix: SOIL Level (low/med): LOW

J/wJ

Background Lab Sample ID: 6389710BKG
% Solids for Duplicate: 95.0
Batch ID(s): P24308B, P24326A, P24311B, P25008A
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6389713DUP
% Solids for Sample: 94.9

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		3		MS
Boron		5.1	0.6987	B	6.6438		162	*	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.

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

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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 *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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	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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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-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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

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

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

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

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

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

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
BARIUM	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

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

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

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

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**

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**

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

Method: 8082 **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
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	S, E

Method Category: SVOA

Method: 8151A **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
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

Method: 8270C SIM **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
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

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
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

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

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

Data Qualifier Summary

Lab Reporting Batch ID: DE235

Laboratory: LL

EDD Filename: PrepDE235_v2

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

Reason Code	*Description*
	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

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

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

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	-	-	14.00-147.00	67 (50.00)	BETA-BHC	J(all detects)
	ENDOSULFAN I	-	-	16.00-137.00	79 (50.00)	ENDOSULFAN I	
	ENDOSULFAN SULFATE	172	-	21.00-160.00	55 (50.00)	ENDOSULFAN SULFATE	
	ENDRIN ALDEHYDE	-	-	10.00-148.00	41 (35.00)	ENDRIN ALDEHYDE	
	METHOXYCHLOR	-	256	32.00-147.00	94 (50.00)	METHOXYCHLOR	
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	-	-120	16.00-163.00	74 (50.00)	4,4'-DDD	J(all detects) R(all non-detects) DDT, No Qual, >4x
	4,4'-DDT	-198	-167	10.00-176.00	-	4,4'-DDT	
	DIELDRIN	-34	-	19.00-154.00	62 (50.00)	DIELDRIN	
	ENDOSULFAN II	0	-	28.00-154.00	-	ENDOSULFAN II	
	ENDRIN	-	0	11.00-149.00	200 (50.00)	ENDRIN	
	ENDRIN KETONE	186	0	22.00-165.00	200 (50.00)	ENDRIN KETONE	

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)	-	-	49.00-123.00	21 (20.00)	EFH (C12-C14)	J(all detects)
	EFH (C15-C20)	129	-	49.00-123.00	-	EFH (C15-C20)	
	EFH (C21-C30)	256	133	49.00-123.00	47 (20.00)	EFH (C21-C30)	
	EFH (C30-C40)	584	266	49.00-123.00	52 (20.00)	EFH (C30-C40)	

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)	-	-	24.00-141.00	54 (35.00)	2,4,5-TP (Silvex)	J(all detects)
	DALAPON	-	-	10.00-125.00	61 (50.00)	DALAPON	

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

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)

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

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	ALUMINUM	156	-	80.00-120.00	-	ALUMINUM	
P24508DQ222019	IRON	146	-	80.00-120.00	-	IRON	
(SL-267-SA6-SB-4.0-5.0	MAGNESIUM	132	-	80.00-120.00	-	MAGNESIUM	
SL -267-SA6-SB-9.0-10.0	POTASSIUM	130	-	80.00-120.00	-	POTASSIUM	No Qual, SRM within QC Limits
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)							

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P1LCLCSQ260411	Diethylphthalate	140	-	68.00-125.00	-	Diethylphthalate	
(SL-267-SA6-SB-4.0-5.0	FLUORENE	126	-	71.00-120.00	-	FLUORENE	
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)							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 TETRACHLORO-M-XYLENE	33 44	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects) UJ(all non-detects)

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)
	STRONTIUM	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)
	TIN	J	2.69	10.1	PQL	mg/Kg	
	Zirconium	J	1.13	5.06	PQL	mg/Kg	
SL-267-SA6-SB-9.0-10.0	SODIUM	J	102	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.63	10.3	PQL	mg/Kg	
	Zirconium	J	0.677	5.17	PQL	mg/Kg	
SL-305-SA6-SB-2.0-3.0	TIN	J	3.73	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	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)
	Zirconium	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)
	TIN	J	2.83	10.2	PQL	mg/Kg	
	Zirconium	J	2.78	5.09	PQL	mg/Kg	
SL-306-SA6-SS-0.0-0.5	SODIUM	J	80.1	102	PQL	mg/Kg	J (all detects)
	TIN	J	2.85	10.2	PQL	mg/Kg	
	Zirconium	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	J	0.124	0.202	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0696	0.101	PQL	mg/Kg	
	SELENIUM	J	0.0871	0.405	PQL	mg/Kg	
SL-267-SA6-SB-9.0-10.0	ANTIMONY	J	0.0835	0.207	PQL	mg/Kg	J (all detects)
	SELENIUM	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	J	0.154	0.211	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.142	0.421	PQL	mg/Kg	
	SILVER	J	0.0773	0.105	PQL	mg/Kg	
SL-306-SA6-SB-4.0-5.0	ANTIMONY	J	0.176	0.212	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0887	0.106	PQL	mg/Kg	
	SELENIUM	J	0.124	0.423	PQL	mg/Kg	
	SILVER	J	0.0670	0.106	PQL	mg/Kg	
SL-306-SA6-SS-0.0-0.5	ANTIMONY	J	0.174	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	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	J	2.4	3.6	PQL	ug/Kg	J (all detects)
	ENDOSULFAN I	J	0.049	0.18	PQL	ug/Kg	
	ENDOSULFAN SULFATE	J	0.27	0.36	PQL	ug/Kg	
	HEPTACHLOR EPOXIDE	J	0.069	0.18	PQL	ug/Kg	
SL-306-SA6-SS-0.0-0.5	Chlordane	J	1.6	3.5	PQL	ug/Kg	J (all detects)
	ENDRIN	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** Date: 12/27/11
SDG #: DE235 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
2nd Reviewer: A

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 ICB / CCB
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	SMQ 0B2337
VII.	Duplicate Sample Analysis	SW	↓
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	SMQ 0B2337
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: _____

LDC #: 26859E4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: [signature]
2nd Reviewer: [signature]

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	Sample Identification											
	7	Action Level											
B	9.7	4.85											
Sr	0.41	0.205											

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".

Lancaster Laboratories

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 Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		20683.5992		23695.0305		24069.3389		214.5278	212.4450	MG/KG	1404		1594		2		74X	20	P
Antimony	121	0.1952	B	0.8425		0.8660		1.2872	1.2999	MG/KG	50	N	52	N	3		75 - 125	20	MS
Arsenic	75	4.7758		7.7852		8.1353		2.1453	2.1665	MG/KG	140	N	155	N	4		75 - 125	20	MS
Barium	137	105.1390		121.4227		140.7587		10.7264	10.8326	MG/KG	152		329		15		74X	20	MS
Beryllium	9	0.7504		1.7201		1.9468		0.8581	0.8666	MG/KG	113		138	N	12		75 - 125	20	MS
Boron		0.3824	U	220.9004		209.7618		214.5278	212.4450	MG/KG	103		99		5		84 - 115	20	P
Cadmium	111	0.1045	B	1.2925		1.5590		1.0726	1.0833	MG/KG	111		134	N	19		75 - 125	20	MS
Calcium		2173.7790		2721.1814		2724.3175		429.0556	424.8901	MG/KG	128		130		0		74X	20	P
Chromium	52	20.8812		32.9515		37.6541		10.7264	10.8326	MG/KG	113		155	N	13		75 - 125	20	MS
Cobalt	59	5.8996		67.8766		75.7848		53.6320	54.1630	MG/KG	116		129	N	11		75 - 125	20	MS
Copper	63	8.7719		21.8175		25.3483		10.7264	10.8326	MG/KG	122		153	N	15		75 - 125	20	MS
Iron		20164.8977		20775.0021		21210.9855		107.2639	106.2225	MG/KG	569		985		2		74X	20	P
Lead	208	5.4195		9.3856		10.8759		3.2179	3.2498	MG/KG	123		168	N	15		75 - 125	20	MS
Lithium		23.1501		131.8939		131.2050		107.2639	106.2225	MG/KG	101		102		1		82 - 114	20	P
Magnesium		4231.9199		4547.6059		4543.5629		214.5278	212.4450	MG/KG	147		147		0		74X	20	P
Manganese		256.7154		324.6632		330.4975		53.6320	53.1113	MG/KG	127		139		2			20	P
Mercury		0.0077	U	0.1828		0.1828		0.1775	0.1724	MG/KG	103		106		0		65 - 135	20	CV
Molybdenum	98	0.5228		12.9339		14.6067		10.7264	10.8326	MG/KG	116		130	N	12		75 - 125	20	MS
Nickel	60	13.5030		27.5239		31.8478		10.7264	10.8326	MG/KG	131	N	169	N	15		75 - 125	20	MS
Phosphorus		207.4728		332.0097		334.2451		107.2639	106.2225	MG/KG	116		119		1		75 - 125	20	P
Potassium		2146.3417		3687.5413		3587.5029		1072.6391	1062.2252	MG/KG	144	N	136	N	3		75 - 125	20	P
Selenium	78	0.1267	B	2.6816		2.7731		2.1453	2.1665	MG/KG	119		122		3		75 - 125	20	MS
Silver	107	0.0410	B	12.8137		14.0585		10.7264	10.8326	MG/KG	119		129	N	9		75 - 125	20	MS
Sodium		97.8883	B	1123.5219		1099.9140		1072.6391	1062.2252	MG/KG	96		94		2		75 - 125	20	P
Strontium		23.6026		128.5730		125.9289		107.2639	106.2225	MG/KG	98		96		2		75 - 115	20	P
Thallium	203	0.2613		0.7965		0.8850		0.4291	0.4333	MG/KG	125		144	N	11		75 - 125	20	MS
Tin		2.8500	B	384.5486		377.0910		429.0556	424.8901	MG/KG	89		88		2		80 - 110	20	P
Titanium		1345.1630		1592.0453		1513.0414		107.2639	108.3259	MG/KG	230		155		5		74X	20	P
Vanadium	51	41.5755		56.0561		62.5041		10.7264	10.8326	MG/KG	135	N	193	N	11		75 - 125	20	MS
Zinc	66	52.7289		65.8815		75.5682		10.7264	10.8326	MG/KG	123		211		14		74X	20	MS
Zirconium		2.3040	B	106.9636		104.8299		107.2639	106.2225	MG/KG	98		97		2		75 - 125	20	P

DE237

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:
N = Matrix Spike OOS, * = Duplicate OOS

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE237
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6395204BKG
% Solids for Duplicate: 91.4
Batch ID(s): P24508D, P24526A, P24511B, P25508A
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6395207DUP
% Solids for Sample: 91.4

J/UJ

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		~~30~~		MS	J/UJ
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	J/UJ
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	J/UJ
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	

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.

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

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 *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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 *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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 *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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-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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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-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

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

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

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

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

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

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

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
BARIUM	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
BARIUM	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

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

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

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

Data Qualifier Summary

Lab Reporting Batch ID: DE236 **Laboratory: LL**

EDD Filename: PrepDE236_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

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

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

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
Matrix: SO
Preparation Method: 3550B

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)
SL-198-SA6-SB-4.0-5.0 (REA2)		17.00	14.00	DAYS	UJ (all non-detects)
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	41	20.00	No Qual, OK by Difference
	Nitrate-NO3	47	20.00	

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

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

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 AROCLOR 1260	J J	0.51 0.69	1.8 1.8	PQL PQL	ug/Kg 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** Date: 12/27/11
SDG #: DE236 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
2nd Reviewer: A

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 ICB/CCB
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	SDG DE237
VII.	Duplicate Sample Analysis	SW	
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	SDG DE237
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-198-SA6-SB-4.0-5.0	11	MB	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: _____

Lancaster Laboratories

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 Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	RPD	M	
Aluminum		20683.5992		23695.0305		24069.3389		214.5278	212.4450	MG/KG	1404		1594		2		74X	20	P	
Antimony	121	0.1952	B	0.8425		0.8660		1.2872	1.2999	MG/KG	50	N	52	N	3		75 - 125	20	MS	J/UJ
Arsenic	75	4.7758		7.7852		8.1353		2.1453	2.1665	MG/KG	140	N	155	N	4		75 - 125	20	MS	UJ
Barium	137	105.1390		121.4227		140.7587		10.7264	10.8326	MG/KG	152		329		15		74X	20	MS	
Beryllium	9	0.7504		1.7201		1.9468		0.8581	0.8666	MG/KG	113		138	N	12		75 - 125	20	MS	UJ
Boron		0.3824	U	220.9004		209.7618		214.5278	212.4450	MG/KG	103		99		5		84 - 115	20	P	
Cadmium	111	0.1045	B	1.2925		1.5590		1.0726	1.0833	MG/KG	111		134	N	19		75 - 125	20	MS	UJ
Calcium		2173.7790		2721.1814		2724.3175		429.0556	424.8901	MG/KG	128		130		0		74X	20	P	
Chromium	52	20.8812		32.9515		37.6541		10.7264	10.8326	MG/KG	113		155	N	13		75 - 125	20	MS	UJ
Cobalt	59	5.8996		67.8766		75.7848		53.6320	54.1630	MG/KG	116		129	N	11		75 - 125	20	MS	↓
Copper	63	8.7719		21.8175		25.3483		10.7264	10.8326	MG/KG	122		153	N	15		75 - 125	20	MS	
Iron		20164.8977		20775.0021		21210.9855		107.2639	106.2225	MG/KG	569		985		2		74X	20	P	
Lead	208	5.4195		9.3856		10.8759		3.2179	3.2498	MG/KG	123		168	N	15		75 - 125	20	MS	UJ
Lithium		23.1501		131.8939		131.2050		107.2639	106.2225	MG/KG	101		102		1		82 - 114	20	P	
Magnesium		4231.9199		4547.6059		4543.5629		214.5278	212.4450	MG/KG	147		147		0		74X	20	P	
Manganese		256.7154		324.6632		330.4975		53.6320	53.1113	MG/KG	127		139		2		↓	20	P	
Mercury		0.0077	U	0.1828		0.1828		0.1775	0.1724	MG/KG	103		106		0		65 - 135	20	CV	
Molybdenum	98	0.5228		12.9339		14.6067		10.7264	10.8326	MG/KG	116		130	N	12		75 - 125	20	MS	UJ
Nickel	60	13.5030		27.5239		31.8478		10.7264	10.8326	MG/KG	131	N	169	N	15		75 - 125	20	MS	↓
Phosphorus		207.4728		332.0097		334.2451		107.2639	106.2225	MG/KG	116		119		1		75 - 125	20	P	
Potassium		2146.3417		3687.5413		3587.5029		1072.6391	1062.2252	MG/KG	144	N	136	N	3		75 - 125	20	P	UJ
Selenium	78	0.1267	B	2.6816		2.7731		2.1453	2.1665	MG/KG	119		122		3		75 - 125	20	MS	
Silver	107	0.0410	B	12.8137		14.0585		10.7264	10.8326	MG/KG	119		129	N	9		75 - 125	20	MS	UJ
Sodium		97.8883	B	1123.5219		1099.9140		1072.6391	1062.2252	MG/KG	96		94		2		75 - 125	20	P	
Strontium		23.6026		128.5730		125.9289		107.2639	106.2225	MG/KG	98		96		2		75 - 115	20	P	
Thallium	203	0.2613		0.7965		0.8850		0.4291	0.4333	MG/KG	125		144	N	11		75 - 125	20	MS	UJ
Tin		2.8500	B	384.5486		377.0910		429.0556	424.8901	MG/KG	89		88		2		80 - 110	20	P	
Titanium		1345.1630		1592.0453		1513.0414		107.2639	108.3259	MG/KG	230		155		5		74X	20	P	
Vanadium	51	41.5755		56.0561		62.5041		10.7264	10.8326	MG/KG	135	N	193	N	11		75 - 125	20	MS	UJ
Zinc	66	52.7289		65.8815		75.5682		10.7264	10.8326	MG/KG	123		211		14		>4X	20	MS	
Zirconium		2.3040	B	106.9636		104.8299		107.2639	106.2225	MG/KG	98		97		2		75 - 125	20	P	

E23717
23718

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:
N = Matrix Spike OOS, * = Duplicate OOS

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE237
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6395204BKG
% Solids for Duplicate: 91.4
Batch ID(s): P24508D, P24526A, P24511B, P25508A
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6395207DUP
% Solids for Sample: 91.4

J/UJ

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		~~30~~		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

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.

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

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

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

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

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

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

Data Qualifier Summary

Lab Reporting Batch ID: DE237 **Laboratory: LL**

EDD Filename: DE237_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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: 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

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

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: 3015M
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	EFH (C21-C30)	133	-	49.00-123.00	-	EFH (C21-C30)	
SL-262-SA6-SB-4.0-5.0MSD	EFH (C30-C40)	-	-	49.00-123.00	25 (20.00)	EFH (C30-C40)	J(all detects)
(SL-262-SA6-SB-4.0-5.0)							

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	ARSENIC	140	155	75.00-125.00	-	ARSENIC	
SL-262-SA6-SB-4.0-5.0MSD	BERYLLIUM	-	138	75.00-125.00	-	BERYLLIUM	
(DUP14 -SA6-QC-090111	CADMIUM	-	134	75.00-125.00	-	CADMIUM	
SL -258-SA6-SB-0.0-0.83	CHROMIUM	-	155	75.00-125.00	-	CHROMIUM	
SL -262-SA6-SB-4.0-5.0	COBALT	-	129	75.00-125.00	-	COBALT	
SL -264-SA6-SB-0.4-1.4	COPPER	-	153	75.00-125.00	-	COPPER	
SL -266-SA6-SB-4.0-5.0)	LEAD	-	168	75.00-125.00	-	LEAD	J(all detects)
	NICKEL	131	169	75.00-125.00	-	NICKEL	
	SILVER	-	129	75.00-125.00	-	SILVER	
	THALLIUM	-	144	75.00-125.00	-	THALLIUM	Zn, No Qual, >4x
	VANADIUM	135	193	75.00-125.00	-	VANADIUM	
	ZINC	-	211	75.00-125.00	-	ZINC	

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 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-4.0-5.0MSD (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)	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	ALUMINUM	1404	1594	75.00-125.00	-	ALUMINUM	
SL-262-SA6-SB-4.0-5.0MSD	CALCIUM	128	130	75.00-125.00	-	CALCIUM	J(all detects)
(DUP14-SA6-QC-090111	IRON	569	985	75.00-125.00	-	IRON	
SL-258-SA6-SB-0.0-0.83	MAGNESIUM	147	147	75.00-125.00	-	MAGNESIUM	Al, Ca, Fe, Mg, Mn,
SL-262-SA6-SB-4.0-5.0	MANGANESE	127	139	75.00-125.00	-	MANGANESE	No Qual, >4x
SL-264-SA6-SB-0.4-1.4	POTASSIUM	144	136	75.00-125.00	-	POTASSIUM	
SL-266-SA6-SB-4.0-5.0)							

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	1-METHYLNAPHTHALENE	64	-	72.00-123.00	-	1-METHYLNAPHTHALENE	
SL-262-SA6-SB-4.0-5.0MSD	Dimethylphthalate	62	-	74.00-118.00	-	Dimethylphthalate	J(all detects)
(SL-262-SA6-SB-4.0-5.0)	N-NITROSODIMETHYLAMINE	24	-	48.00-113.00	116 (30.00)	N-NITROSODIMETHYLAMINE	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	57	20.00	J(all detects) UJ(all non-detects)
	PHOSPHORUS	27	20.00	

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	23	20.00	Cd, Se, Tl, No Qual, OK by Difference
	BARIUM	31	20.00	
	CADMIUM	30	20.00	
	COBALT	22	20.00	J(all detects) UJ(all non-detects)
	COPPER	26	20.00	
	LEAD	24	20.00	
	NICKEL	23	20.00	
	SELENIUM	25	20.00	
	THALLIUM	22	20.00	
	ZINC	22	20.00	

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

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 (%) SL-262-SA6-SB-4.0-5.0	Concentration (%) DUP14-SA6-QC-090111	Sample RPD	eQAPP RPD	Flag
MOISTURE	8.6	9.9	14		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg) SL-262-SA6-SB-4.0-5.0	Concentration (mg/Kg) DUP14-SA6-QC-090111	Sample RPD	eQAPP RPD	Flag
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) SL-262-SA6-SB-4.0-5.0	Concentration (mg/Kg) DUP14-SA6-QC-090111	Sample RPD	eQAPP RPD	Flag
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) SL-262-SA6-SB-4.0-5.0	Concentration (mg/Kg) DUP14-SA6-QC-090111	Sample RPD	eQAPP RPD	Flag
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	

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

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 **VALIDATION COMPLETENESS WORKSHEET** Date: 12/29/11

SDG #: DE237 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: W

2nd Reviewer: A

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 ZnB/CuB
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Mn, Ti, Zn >4X, No qual/SR
VII.	Duplicate Sample Analysis	SW	Cd, Se, Tl <5X, No qual.
VIII.	Laboratory Control Samples (LCS)	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	—	
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-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: _____

Lancaster Laboratories

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 Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	RPD	M
Aluminum		20683.5992		23695.0305		24069.3389		214.5278	212.4450	MG/KG	1404		1594		2		74X	20	P
Antimony	121	0.1952	B	0.8425		0.8660		1.2872	1.2999	MG/KG	50	N	52	N	3		75 - 125	20	MS
Arsenic	75	4.7758		7.7852		8.1353		2.1453	2.1665	MG/KG	140	N	155	N	4		75 - 125	20	MS
Barium	137	105.1390		121.4227		140.7587		10.7264	10.8326	MG/KG	152		329		15		74X	20	MS
Beryllium	9	0.7504		1.7201		1.9468		0.8581	0.8666	MG/KG	113		138	N	12		75 - 125	20	MS
Boron		0.3824	U	220.9004		209.7618		214.5278	212.4450	MG/KG	103		99		5		84 - 115	20	P
Cadmium	111	0.1045	B	1.2925		1.5590		1.0726	1.0833	MG/KG	111		134	N	19		75 - 125	20	MS
Calcium		2173.7790		2721.1814		2724.3175		429.0556	424.8901	MG/KG	128		130		0		74X	20	P
Chromium	52	20.8812		32.9515		37.6541		10.7264	10.8326	MG/KG	113		155	N	13		75 - 125	20	MS
Cobalt	59	5.8996		67.8766		75.7848		53.6320	54.1630	MG/KG	116		129	N	11		75 - 125	20	MS
Copper	63	8.7719		21.8175		25.3483		10.7264	10.8326	MG/KG	122		153	N	15		75 - 125	20	MS
Iron		20164.8977		20775.0021		21210.9855		107.2639	106.2225	MG/KG	569		985		2		74X	20	P
Lead	208	5.4195		9.3856		10.8759		3.2179	3.2498	MG/KG	123		168	N	15		75 - 125	20	MS
Lithium		23.1501		131.8939		131.2050		107.2639	106.2225	MG/KG	101		102		1		82 - 114	20	P
Magnesium		4231.9199		4547.6059		4543.5629		214.5278	212.4450	MG/KG	147		147		0		74X	20	P
Manganese		256.7154		324.6632		330.4975		53.6320	53.1113	MG/KG	127		139		2			20	P
Mercury		0.0077	U	0.1828		0.1828		0.1775	0.1724	MG/KG	103		106		0		65 - 135	20	CV
Molybdenum	98	0.5228		12.9339		14.6067		10.7264	10.8326	MG/KG	116		130	N	12		75 - 125	20	MS
Nickel	60	13.5030		27.5239		31.8478		10.7264	10.8326	MG/KG	131	N	169	N	15		75 - 125	20	MS
Phosphorus		207.4728		332.0097		334.2451		107.2639	106.2225	MG/KG	116		119		1		75 - 125	20	P
Potassium		2146.3417		3687.5413		3587.5029		1072.6391	1062.2252	MG/KG	144	N	136	N	3		75 - 125	20	P
Selenium	78	0.1267	B	2.6816		2.7731		2.1453	2.1665	MG/KG	119		122		3		75 - 125	20	MS
Silver	107	0.0410	B	12.8137		14.0585		10.7264	10.8326	MG/KG	119		129	N	9		75 - 125	20	MS
Sodium		97.8883	B	1123.5219		1099.9140		1072.6391	1062.2252	MG/KG	96		94		2		75 - 125	20	P
Strontium		23.6026		128.5730		125.9289		107.2639	106.2225	MG/KG	98		96		2		75 - 115	20	P
Thallium	203	0.2613		0.7965		0.8850		0.4291	0.4333	MG/KG	125		144	N	11		75 - 125	20	MS
Tin		2.8500	B	384.5486		377.0910		429.0556	424.8901	MG/KG	89		88		2		80 - 110	20	P
Titanium		1345.1630		1592.0453		1513.0414		107.2639	108.3259	MG/KG	230		155		5		74X	20	P
Vanadium	51	41.5755		56.0561		62.5041		10.7264	10.8326	MG/KG	135	N	193	N	11		75 - 125	20	MS
Zinc	66	52.7289		65.8815		75.5682		10.7264	10.8326	MG/KG	123		211		14		74X	20	MS
Zirconium		2.3040	B	106.9636		104.8299		107.2639	106.2225	MG/KG	98		97		2		75 - 125	20	P

DE237

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:
N = Matrix Spike OOS, * = Duplicate OOS

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE237
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6395204BKG
% Solids for Duplicate: 91.4
Batch ID(s): P24508D, P24526A, P24511B, P25508A
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6395207DUP
% Solids for Sample: 91.4

J/UJ

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		~~30~~		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

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.

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

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 *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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 *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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-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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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-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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

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

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**

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
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

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

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**

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
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

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

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

Data Qualifier Summary

Lab Reporting Batch ID: DE238 **Laboratory: LL**

EDD Filename: DE238_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

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

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

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	11.7 mg/Kg	SL-204-SA6-SB-4.0-5.0
		CALCIUM	5.85 mg/Kg	SL-261-SA6-SB-1.5-2.5
		IRON	7.11 mg/Kg	SL-261-SA6-SB-9.0-10.0
		MAGNESIUM	0.594 mg/Kg	SL-263-SA6-SB-4.0-5.0
		MANGANESE	0.0392 mg/Kg	SL-263-SA6-SB-9.0-10.0
		PHOSPHORUS	1.07 mg/Kg	
		TIN	1.58 mg/Kg	

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 Nitrate-NO3	J J	1.0 1.3	1.1 1.7	PQL PQL	mg/Kg mg/Kg	J (all detects)
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 TIN Zirconium	J J J	106 3.01 2.74	108 10.8 5.39	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-261-SA6-SB-1.5-2.5	SODIUM TIN Zirconium	J J J	90.8 3.01 3.26	111 11.1 5.57	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-261-SA6-SB-9.0-10.0	SODIUM TIN Zirconium	J J J	83.0 3.09 2.42	111 11.1 5.53	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-263-SA6-SB-4.0-5.0	SODIUM TIN Zirconium	J J J	107 3.25 3.15	109 10.9 5.45	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-263-SA6-SB-9.0-10.0	TIN Zirconium	J J	3.30 2.60	10.9 5.47	PQL PQL	mg/Kg mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-204-SA6-SB-4.0-5.0	ANTIMONY SELENIUM SILVER	J J J	0.0796 0.113 0.0449	0.212 0.423 0.106	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-261-SA6-SB-1.5-2.5	ANTIMONY SELENIUM	J J	0.114 0.159	0.214 0.428	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-261-SA6-SB-9.0-10.0	SELENIUM SILVER THALLIUM	J J J	0.0786 0.0544 0.220	0.430 0.107 0.537	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-263-SA6-SB-4.0-5.0	CADMIUM SILVER	J J	0.0687 0.0483	0.108 0.108	PQL PQL	mg/Kg mg/Kg	J (all detects)
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) EFH (C15-C20) EFH (C30-C40)	J J J	0.87 0.48 0.96	1.3 1.3 1.3	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
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 AROCLOR 1260 Aroclor 5460	J J J	0.83 0.67 2.0	1.9 1.9 3.7	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)

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 BIS(2-ETHYLHEXYL)PHTHALATE CHRYSENE FLUORANTHENE PYRENE	J J J J J	1.3 12 0.83 1.4 1.2	1.8 20 1.8 1.8 1.8	PQL PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)

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	
	CHRYSENE	J	0.84	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.0	1.9	PQL	ug/Kg	J (all detects)
	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)

LDC #: 26859H4 **VALIDATION COMPLETENESS WORKSHEET** Date: 12/27/11

SDG #: DE238 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: W

2nd Reviewer: C

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	3 SMG nonpro J/NJ/A Sb.
VII.	Duplicate Sample Analysis	NA	
VIII.	Laboratory Control Samples (LCS)	NA	Ag
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Gr, V J/NJ
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-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: _____

LDC #: 26859H4

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.

Lancaster Laboratories

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 Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		23245.3610		27664.3352		27894.8500		204.2484	208.3333	MG/KG	2164		2232		1		>4X	20	P
Antimony	121	0.1326	B	0.4040		0.4671		1.2255	1.2255	MG/KG	22	N	27	N	14		75 - 125	20	MS
Arsenic	75	5.2635		7.1691		6.9669		2.0425	2.0425	MG/KG	93		83		3		75 - 125	20	MS
Barium	137	99.0809		112.5000		118.0964		10.2124	10.2124	MG/KG	131		186		5		>4X	20	MS
Beryllium	9	0.7100		1.3907		1.4097		0.8170	0.8170	MG/KG	83		86		1		75 - 125	20	MS
Boron		13.9320		213.1883		217.4333		204.2484	208.3333	MG/KG	98		98		2		84 - 115	20	P
Cadmium	111	0.2712		1.2071		1.2020		1.0212	1.0212	MG/KG	92		91		0		75 - 125	20	MS
Calcium		51706.0852		57947.2937		51859.0490		408.4967	416.6667	MG/KG	1528		37		11		>4X	20	P
Chromium	52	27.3693		36.8873		36.6830		10.2124	10.2124	MG/KG	93		91		1		75 - 125	20	MS
Cobalt	59	8.4824		61.1520		60.9886		51.0621	51.0621	MG/KG	103		103		0		75 - 125	20	MS
Copper	63	14.0523		24.7753		26.2663		10.2124	10.2124	MG/KG	105		120		6		75 - 125	20	MS
Iron		27104.5449		27461.4532		27949.5427		102.1242	104.1667	MG/KG	349		811		2		>4X	20	P
Lead	208	7.6573		11.1520		10.9293		3.0637	3.0637	MG/KG	114		107		2		75 - 125	20	MS
Lithium		29.1121		145.9252		146.3875		102.1242	104.1667	MG/KG	114		113		0		82 - 114	20	P
Magnesium		6997.5991		7899.3740		7821.4469		204.2484	208.3333	MG/KG	442		395		1		>4X	20	P
Manganese		314.2688		381.9986		366.7146		51.0621	52.0833	MG/KG	133		101		4		↓	20	P
Mercury		0.0073	U	0.1613		0.1625		0.1720	0.1666	MG/KG	94		98		1		65 - 135	20	CV
Molybdenum	98	0.3962		9.6977		9.7712		10.2124	10.2124	MG/KG	91		92		1		75 - 125	20	MS
Nickel	60	16.8152		27.3080		27.9820		10.2124	10.2124	MG/KG	103		109		2		75 - 125	20	MS
Phosphorus		529.5914		674.4291		668.2615		102.1242	104.1667	MG/KG	142		133		1		>4X	20	P
Potassium		4487.4110		6348.6479		6356.4677		1021.2418	1041.6667	MG/KG	182		179		0		↓	20	P
Selenium	78	0.2230	B	2.1507		2.1671		2.0425	2.0425	MG/KG	94		95		1		75 - 125	20	MS
Silver	107	0.0276	B	10.0286		10.2492		10.2124	10.2124	MG/KG	98		100		2		75 - 125	20	MS
Sodium		193.2757		1242.4592		1251.2219		1021.2418	1041.6667	MG/KG	103		102		1		75 - 125	20	P
Strontium		105.3509		216.3062		210.8604		102.1242	104.1667	MG/KG	109		101		3		75 - 115	20	P
Thallium	203	0.3056		0.7218		0.7304		0.4085	0.4085	MG/KG	102		104		1		75 - 125	20	MS
Tin		3.1847	B	378.4283		385.8385		408.4967	416.6667	MG/KG	92		92		2		80 - 110	20	P
Titanium		1419.4434		1719.6895		1712.5235		100.1603	102.1242	MG/KG	300		287		0		>4X	20	P
Vanadium	51	53.4926		64.0931		67.8513		10.2124	10.2124	MG/KG	104		141		6		↓	20	MS
Zinc	66	68.7908		77.6961		83.7623		10.2124	10.2124	MG/KG	87		147		8		↓	20	MS
Zirconium		5.6988		98.1087		100.8458		102.1242	104.1667	MG/KG	90		91		3		75 - 125	20	P

Sb = post spike 104 %

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:
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 *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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 *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

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

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

Data Qualifier Summary

Lab Reporting Batch ID: DE239 **Laboratory: LL**

EDD Filename: PrepDE239_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

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

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE239

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE239 **Laboratory: LL**
EDD Filename: DE239_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7199 **Preparation Method: Gen Prep**
Matrix: AQ

Sample ID	*Type*	*Actual*	*Criteria*	*Units*	*Flag*
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

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
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	J	0.0105	0.0500	PQL	mg/L	J (all detects)
	STRONTIUM	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	J	0.073	1.0	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.23	1.0	PQL	ug/L	
	Di-n-butylphthalate	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	J	3.63	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.91	5.39	PQL	mg/Kg	
SL-311-SA6-SB-2.0-3.0	TIN	J	3.98	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	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	J	0.0842	0.214	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.119	0.427	PQL	mg/Kg	
	SILVER	J	0.0299	0.107	PQL	mg/Kg	
SL-311-SA6-SB-2.0-3.0	ANTIMONY	J	0.0900	0.210	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0544	0.105	PQL	mg/Kg	
	SELENIUM	J	0.169	0.420	PQL	mg/Kg	
	SILVER	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 #: 26859I4 **VALIDATION COMPLETENESS WORKSHEET** Date: 12/17/11
SDG #: DE239 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
2nd Reviewer: A

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: J/nJ/A soil
VII.	Duplicate Sample Analysis	N A	
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Cr, V: J/nJ An soil
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	SW	EB=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: _____

LDC #: 26859I4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer:
2nd Reviewer:

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 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.

LDC #: 26859I4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: ~
2nd Reviewer: ✓

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

(Y) N N/A Were field blanks identified in this SDG?

(Y) N N/A Were target analytes detected in the field blanks?

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

Sampling date: 9/7/11 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	Action Level											
B	10.5	5.25											
Sr	0.27	0.135											

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".

Lancaster Laboratories

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 Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		23245.3610		27664.3352		27894.8500		204.2484	208.3333	MG/KG	2164		2232		1		>4X	20	P
Antimony	121	0.1326	B	0.4040		0.4671		1.2255	1.2255	MG/KG	22	N	27	N	14		75 - 125	20	MS
Arsenic	75	5.2635		7.1691		6.9669		2.0425	2.0425	MG/KG	93		83		3		75 - 125	20	MS
Barium	137	99.0809		112.5000		118.0964		10.2124	10.2124	MG/KG	131		186		5		>4X	20	MS
Beryllium	9	0.7100		1.3907		1.4097		0.8170	0.8170	MG/KG	83		86		1		75 - 125	20	MS
Boron		13.9320		213.1883		217.4333		204.2484	208.3333	MG/KG	98		98		2		84 - 115	20	P
Cadmium	111	0.2712		1.2071		1.2020		1.0212	1.0212	MG/KG	92		91		0		75 - 125	20	MS
Calcium		51706.0852		57947.2937		51859.0490		408.4967	416.6667	MG/KG	1528		37		11		>4X	20	P
Chromium	52	27.3693		36.8873		36.6830		10.2124	10.2124	MG/KG	93		91		1		75 - 125	20	MS
Cobalt	59	8.4824		61.1520		60.9886		51.0621	51.0621	MG/KG	103		103		0		75 - 125	20	MS
Copper	63	14.0523		24.7753		26.2663		10.2124	10.2124	MG/KG	105		120		6		75 - 125	20	MS
Iron		27104.5449		27461.4532		27949.5427		102.1242	104.1667	MG/KG	349		811		2		>4X	20	P
Lead	208	7.6573		11.1520		10.9293		3.0637	3.0637	MG/KG	114		107		2		75 - 125	20	MS
Lithium		29.1121		145.9252		146.3875		102.1242	104.1667	MG/KG	114		113		0		82 - 114	20	P
Magnesium		6997.5991		7899.3740		7821.4469		204.2484	208.3333	MG/KG	442		395		1		>4X	20	P
Manganese		314.2688		381.9986		366.7146		51.0621	52.0833	MG/KG	133		101		4		↓	20	P
Mercury		0.0073	U	0.1613		0.1625		0.1720	0.1666	MG/KG	94		98		1		65 - 135	20	CV
Molybdenum	98	0.3962		9.6977		9.7712		10.2124	10.2124	MG/KG	91		92		1		75 - 125	20	MS
Nickel	60	16.8152		27.3080		27.9820		10.2124	10.2124	MG/KG	103		109		2		75 - 125	20	MS
Phosphorus		529.5914		674.4291		668.2615		102.1242	104.1667	MG/KG	142		133		1		>4X	20	P
Potassium		4487.4110		6348.6479		6356.4677		1021.2418	1041.6667	MG/KG	182		179		0		↓	20	P
Selenium	78	0.2230	B	2.1507		2.1671		2.0425	2.0425	MG/KG	94		95		1		75 - 125	20	MS
Silver	107	0.0276	B	10.0286		10.2492		10.2124	10.2124	MG/KG	98		100		2		75 - 125	20	MS
Sodium		193.2757		1242.4592		1251.2219		1021.2418	1041.6667	MG/KG	103		102		1		75 - 125	20	P
Strontium		105.3509		216.3062		210.8604		102.1242	104.1667	MG/KG	109		101		3		75 - 115	20	P
Thallium	203	0.3056		0.7218		0.7304		0.4085	0.4085	MG/KG	102		104		1		75 - 125	20	MS
Tin		3.1847	B	378.4283		385.8385		408.4967	416.6667	MG/KG	92		92		2		80 - 110	20	P
Titanium		1419.4434		1719.6895		1712.5235		100.1603	102.1242	MG/KG	300		287		0		>4X	20	P
Vanadium	51	53.4926		64.0931		67.8513		10.2124	10.2124	MG/KG	104		141		6		↓	20	MS
Zinc	66	68.7908		77.6961		83.7623		10.2124	10.2124	MG/KG	87		147		8			20	MS
Zirconium		5.6988		98.1087		100.8458		102.1242	104.1667	MG/KG	90		91		3		75 - 125	20	P

U/J

Sb = post spike 104 %

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:
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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

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
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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

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

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

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-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

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

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

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

Data Qualifier Summary

Lab Reporting Batch ID: DE240 **Laboratory: LL**

EDD Filename: DE240_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

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

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

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	11.7 mg/Kg	DUP15-SA6-QC-090911
		CALCIUM	5.85 mg/Kg	SL-001-SA6-SB-0.0-1.0
		IRON	7.11 mg/Kg	SL-210-SA6-SB-4.0-5.0
		MAGNESIUM	0.594 mg/Kg	SL-210-SA6-SB-9.0-10.0
		MANGANESE	0.0392 mg/Kg	SL-217-SA6-SB-4.0-5.0
		PHOSPHORUS	1.07 mg/Kg	SL-217-SA6-SB-7.5-8.5
		TIN	1.58 mg/Kg	

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	

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

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)
AROCLOR 1260	1.8 U	3.8	200	50.00	UJ(all non-detects)
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

Reporting Limit Outliers

Lab Reporting Batch ID: DE240 Laboratory: LL

EDD Filename: DE240_v1. eQAPP Name: CDM_SSFL_110509

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-210-SA6-SB-9.0-10.0	N-NITROSODIMETHYLAMINE	J	34.5	36.6	PQL	ng/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA6-QC-090911	TIN	J	2.99	10.0	PQL	mg/Kg	J (all detects)
SL-001-SA6-SB-0.0-1.0	TIN	J	3.18	10.1	PQL	mg/Kg	J (all detects)
SL-210-SA6-SB-4.0-5.0	SODIUM	J	89.2	106	PQL	mg/Kg	J (all detects)
	TIN	J	2.86	10.6	PQL	mg/Kg	
	Zirconium	J	3.55	5.29	PQL	mg/Kg	
SL-210-SA6-SB-9.0-10.0	TIN	J	3.40	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.74	5.40	PQL	mg/Kg	
SL-217-SA6-SB-4.0-5.0	TIN	J	3.52	12.0	PQL	mg/Kg	J (all detects)
SL-217-SA6-SB-7.5-8.5	TIN	J	3.37	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.77	5.46	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA6-QC-090911	ANTIMONY	J	0.111	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.211	0.404	PQL	mg/Kg	
	SILVER	J	0.0180	0.101	PQL	mg/Kg	
SL-001-SA6-SB-0.0-1.0	ANTIMONY	J	0.133	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.223	0.408	PQL	mg/Kg	
	SILVER	J	0.0276	0.102	PQL	mg/Kg	
SL-210-SA6-SB-4.0-5.0	ANTIMONY	J	0.0872	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.182	0.432	PQL	mg/Kg	
	SILVER	J	0.0472	0.108	PQL	mg/Kg	
SL-210-SA6-SB-9.0-10.0	SILVER	J	0.0420	0.106	PQL	mg/Kg	J (all detects)
SL-217-SA6-SB-4.0-5.0	ANTIMONY	J	0.160	0.233	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.262	0.466	PQL	mg/Kg	
	SILVER	J	0.0659	0.116	PQL	mg/Kg	
SL-217-SA6-SB-7.5-8.5	ANTIMONY	J	0.0810	0.210	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0991	0.420	PQL	mg/Kg	
	SILVER	J	0.0370	0.105	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA6-QC-090911	HEXAVALENT CHROMIUM	J	0.34	1.0	PQL	mg/Kg	J (all detects)
SL-001-SA6-SB-0.0-1.0	HEXAVALENT CHROMIUM	J	0.76	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: DE240 Laboratory: LL

EDD Filename: DE240_v1. eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-210-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.47	1.1	PQL	mg/Kg	J (all detects)
SL-210-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.45	1.1	PQL	mg/Kg	J (all detects)
SL-217-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.42	1.2	PQL	mg/Kg	J (all detects)
SL-217-SA6-SB-7.5-8.5	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-217-SA6-SB-4.0-5.0	MERCURY	J	0.0326	0.115	PQL	mg/Kg	J (all detects)
SL-217-SA6-SB-7.5-8.5	MERCURY	J	0.0147	0.104	PQL	mg/Kg	J (all detects)

Method: 8015B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-217-SA6-SB-4.0-5.0	ETHANOL	J	140	610	PQL	ug/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-210-SA6-SB-4.0-5.0	EFH (C15-C20)	J	0.93	1.3	PQL	mg/Kg	J (all detects)
SL-210-SA6-SB-9.0-10.0	EFH (C21-C30)	J	1.1	1.3	PQL	mg/Kg	J (all detects)
SL-217-SA6-SB-7.5-8.5	EFH (C30-C40)	J	0.89	1.3	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA6-QC-090911	Aroclor 5460	J	2.6	3.5	PQL	ug/Kg	J (all detects)
SL-210-SA6-SB-4.0-5.0	AROCLOR 1254 AROCLOR 1260	J J	0.64 0.76	1.9 1.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-217-SA6-SB-4.0-5.0	AROCLOR 1260 Aroclor 5460	J J	1.5 1.9	2.0 4.0	PQL PQL	ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE240 **Laboratory: LL**

EDD Filename: DE240_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-217-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	100	400	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-217-SA6-SB-4.0-5.0	1-METHYLNAPHTHALENE	J	1.0	2.0	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.1	2.0	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.55	2.0	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.2	2.0	PQL	ug/Kg	
	CHRYSENE	J	1.4	2.0	PQL	ug/Kg	
	FLUORANTHENE	J	1.1	2.0	PQL	ug/Kg	
	FLUORENE	J	1.4	2.0	PQL	ug/Kg	
	NAPHTHALENE	J	0.90	2.0	PQL	ug/Kg	

LDC #: 26859J4

SDG #: DE240

Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET

ADR

Date: 6/17/11

Page: 1 of 1

Reviewer: W

2nd Reviewer: C

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	
VII.	Duplicate Sample Analysis	A	Sb, Mo, Ag 45X Not run
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Cr, V. J/UJ
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: 501

1	SL-001-SA6-SB-0.0-1.0	11		21		31	
2	SL-210-SA6-SB-4.0-5.0	12		22		32	
3	SL-210-SA6-SB-9.0-10.0	13		23		33	
4	SL-217-SA6-SB-4.0-5.0	14		24		34	
5	SL-217-SA6-SB-7.5-7.8	15		25		35	
6	DUP15-SA6-QC-090911	16		26		36	
7	SL-001-SA6-SB-0.0-1.0MS	17		27		37	
8	SL-001-SA6-SB-0.0-1.0MSD	18		28		38	
9	SL-001-SA6-SB-0.0-1.0DUP	19		29		39	
10		20		30		40	

Notes: _____

LDC #: 26859J4

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 except Hg:1 Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	2	4	5	6					
Sb			0.32	0.32	0.13	0.087	0.16	0.081	0.11					
Be			0.062	0.062										
Hg			0.032	0.0267										
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.

Lancaster Laboratories

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 Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		23245.3610		27664.3352		27894.8500		204.2484	208.3333	MG/KG	2164		2232		1		>4X	20	P
Antimony	121	0.1326	B	0.4040		0.4671		1.2255	1.2255	MG/KG	22	N	27	N	14		75 - 125	20	MS
Arsenic	75	5.2635		7.1691		6.9669		2.0425	2.0425	MG/KG	93		83		3		75 - 125	20	MS
Barium	137	99.0809		112.5000		118.0964		10.2124	10.2124	MG/KG	131		186		5		>4X	20	MS
Beryllium	9	0.7100		1.3907		1.4097		0.8170	0.8170	MG/KG	83		86		1		75 - 125	20	MS
Boron		13.9320		213.1883		217.4333		204.2484	208.3333	MG/KG	98		98		2		84 - 115	20	P
Cadmium	111	0.2712		1.2071		1.2020		1.0212	1.0212	MG/KG	92		91		0		75 - 125	20	MS
Calcium		51706.0852		57947.2937		51859.0490		408.4967	416.6667	MG/KG	1528		37		11		>4X	20	P
Chromium	52	27.3693		36.8873		36.6830		10.2124	10.2124	MG/KG	93		91		1		75 - 125	20	MS
Cobalt	59	8.4824		61.1520		60.9886		51.0621	51.0621	MG/KG	103		103		0		75 - 125	20	MS
Copper	63	14.0523		24.7753		26.2663		10.2124	10.2124	MG/KG	105		120		6		75 - 125	20	MS
Iron		27104.5449		27461.4532		27949.5427		102.1242	104.1667	MG/KG	349		811		2		>4X	20	P
Lead	208	7.6573		11.1520		10.9293		3.0637	3.0637	MG/KG	114		107		2		75 - 125	20	MS
Lithium		29.1121		145.9252		146.3875		102.1242	104.1667	MG/KG	114		113		0		82 - 114	20	P
Magnesium		6997.5991		7899.3740		7821.4469		204.2484	208.3333	MG/KG	442		395		1		>4X	20	P
Manganese		314.2688		381.9986		366.7146		51.0621	52.0833	MG/KG	133		101		4		↓	20	P
Mercury		0.0073	U	0.1613		0.1625		0.1720	0.1666	MG/KG	94		98		1		65 - 135	20	CV
Molybdenum	98	0.3962		9.6977		9.7712		10.2124	10.2124	MG/KG	91		92		1		75 - 125	20	MS
Nickel	60	16.8152		27.3080		27.9820		10.2124	10.2124	MG/KG	103		109		2		75 - 125	20	MS
Phosphorus		529.5914		674.4291		668.2615		102.1242	104.1667	MG/KG	142		133		1		>4X	20	P
Potassium		4487.4110		6348.6479		6356.4677		1021.2418	1041.6667	MG/KG	182		179		0		↓	20	P
Selenium	78	0.2230	B	2.1507		2.1671		2.0425	2.0425	MG/KG	94		95		1		75 - 125	20	MS
Silver	107	0.0276	B	10.0286		10.2492		10.2124	10.2124	MG/KG	98		100		2		75 - 125	20	MS
Sodium		193.2757		1242.4592		1251.2219		1021.2418	1041.6667	MG/KG	103		102		1		75 - 125	20	P
Strontium		105.3509		216.3062		210.8604		102.1242	104.1667	MG/KG	109		101		3		75 - 115	20	P
Thallium	203	0.3056		0.7218		0.7304		0.4085	0.4085	MG/KG	102		104		1		75 - 125	20	MS
Tin		3.1847	B	378.4283		385.8385		408.4967	416.6667	MG/KG	92		92		2		80 - 110	20	P
Titanium		1419.4434		1719.6895		1712.5235		100.1603	102.1242	MG/KG	300		287		0		>4X	20	P
Vanadium	51	53.4926		64.0931		67.8513		10.2124	10.2124	MG/KG	104		141		6		↓	20	MS
Zinc	66	68.7908		77.6961		83.7623		10.2124	10.2124	MG/KG	87		147		8		↓	20	MS
Zirconium		5.6988		98.1087		100.8458		102.1242	104.1667	MG/KG	90		91		3		75 - 125	20	P

Sb = post spike 60 %

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:
N = Matrix Spike OOS, * = Duplicate OOS

SAMPLE DELIVERY GROUP

DE241

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-Sep-2011	TB-091211	6404356	TB	5030B	8015M	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	3050B	6010B	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	3050B	6020	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	3060A	7199	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	3550B	8015B	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	3550B	8015M	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	3550B	8082	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	3550B	8270C	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	3550B	8270C SIM	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	5035	8015M	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	METHOD	300.0	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	METHOD	314.0	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	METHOD	7471A	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	METHOD	8015B	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	METHOD	8015M	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5MSD	P404352M260920	MSD	3550B	8270C SIM	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5MS	P404352R260846	MS	3550B	8270C SIM	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0	6404355	N	3050B	6010B	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0	6404355	N	3050B	6020	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0	6404355	N	3060A	7199	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0	6404355	N	3550B	8082	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0	6404355	N	3550B	8270C	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0	6404355	N	3550B	8270C SIM	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0	6404355	N	METHOD	300.0	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0	6404355	N	METHOD	314.0	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0	6404355	N	METHOD	6850	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Sep-2011	SL-235-SA6-SB-4.0-5.0	6404355	N	METHOD	7471A	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0MSD	P404355M241600A	MSD	METHOD	6850	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0MS	P404355R241547A	MS	METHOD	6850	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	3050B	6010B	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	3060A	7199	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	3550B	8015B	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	3550B	8015M	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	3550B	8082	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	3550B	8270C	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	3550B	8270C SIM	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	5035	8015M	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	METHOD	300.0	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	METHOD	314.0	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	METHOD	7471A	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	METHOD	8015B	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	METHOD	8015M	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0DUP	P404351D220900	DUP	METHOD	7471A	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0DUP	P404351D220902A	DUP	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0DUP	P404351D220902B	DUP	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0DUP	P404351D220902C	DUP	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0DUP	P404351D220902D	DUP	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0DUP	P404351D221326	DUP	3050B	6010B	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0DUP	P404351D270223A	DUP	METHOD	314.0	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0DUP	P404351D272154A	DUP	3060A	7199	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MSD	P404351M220902	MSD	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MSD	P404351M220908A	MSD	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MSD	P404351M220908B	MSD	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MSD	P404351M220908C	MSD	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MSD	P404351M220908D	MSD	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MSD	P404351M221334	MSD	3050B	6010B	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MSD	P404351M241727A	MSD	3550B	8082	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MSD	P404351M260720	MSD	3550B	8270C	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MS	P404351R220901	MS	METHOD	7471A	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MS	P404351R220905A	MS	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MS	P404351R220905B	MS	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MS	P404351R220905C	MS	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MS	P404351R220905D	MS	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MS	P404351R221330	MS	3050B	6010B	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MS	P404351R241708A	MS	3550B	8082	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MS	P404351R260656	MS	3550B	8270C	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MS	P404351R270246A	MS	METHOD	314.0	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MS	P404351R271002A	MS	3060A	7199	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	3050B	6010B	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	3050B	6020	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	3060A	7199	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	3546	1625C	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	3550B	8015B	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	3550B	8015M	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	3550B	8082	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	3550B	8270C	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	5035	8015M	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	8330	8330A	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	METHOD	300.0	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	METHOD	314.0	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	METHOD	7471A	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	METHOD	8015B	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	METHOD	8015M	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	METHOD	8315A	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	METHOD	9012B	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5MSD	P404354M241918A	MSD	METHOD	8315A	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5MS	P404354R241909A	MS	METHOD	8315A	III
12-Sep-2011	SL-055-SA6-SB-2.0-3.0	6404353	N	3050B	6010B	III
12-Sep-2011	SL-055-SA6-SB-2.0-3.0	6404353	N	3050B	6020	III
12-Sep-2011	SL-055-SA6-SB-2.0-3.0	6404353	N	3060A	7199	III
12-Sep-2011	SL-055-SA6-SB-2.0-3.0	6404353	N	3550B	8082	III
12-Sep-2011	SL-055-SA6-SB-2.0-3.0	6404353	N	3550B	8270C	III
12-Sep-2011	SL-055-SA6-SB-2.0-3.0	6404353	N	3550B	8270C SIM	III
12-Sep-2011	SL-055-SA6-SB-2.0-3.0	6404353	N	5035	8015M	III
12-Sep-2011	SL-055-SA6-SB-2.0-3.0	6404353	N	METHOD	300.0	III
12-Sep-2011	SL-055-SA6-SB-2.0-3.0	6404353	N	METHOD	314.0	III
12-Sep-2011	SL-055-SA6-SB-2.0-3.0	6404353	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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE241 **Laboratory: LL**

EDD Filename: DE241_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-050-SA6-SB-1.0-2.0** ***Collected:*** **9/12/2011 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
BORON	3.52	J	0.357	MDL	4.96	PQL	mg/Kg	J	Z
SODIUM	71.2	J	5.90	MDL	99.1	PQL	mg/Kg	J	Z
TIN	3.00	J	0.317	MDL	9.91	PQL	mg/Kg	U	B
Zirconium	2.26	J	0.456	MDL	4.96	PQL	mg/Kg	J	Z

Sample ID: **SL-051-SA6-SB-3.5-4.5** ***Collected:*** **9/12/2011 8:30:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.15	J	0.367	MDL	5.10	PQL	mg/Kg	U	B
SODIUM	73.8	J	6.07	MDL	102	PQL	mg/Kg	J	Z
TIN	2.89	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.68	J	0.470	MDL	5.10	PQL	mg/Kg	J	Z

Sample ID: **SL-055-SA6-SB-2.0-3.0** ***Collected:*** **9/12/2011 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
SODIUM	88.3	J	5.94	MDL	99.9	PQL	mg/Kg	J	Z

Sample ID: **SL-055-SA6-SB-2.0-3.0** ***Collected:*** **9/12/2011 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
BORON	3.49	J	0.360	MDL	4.99	PQL	mg/Kg	J	Z
TIN	3.09	J	0.320	MDL	9.99	PQL	mg/Kg	U	B
Zirconium	2.35	J	0.459	MDL	4.99	PQL	mg/Kg	J	Z

Sample ID: **SL-235-SA6-SB-4.0-5.0** ***Collected:*** **9/12/2011 9:01:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.72	J	0.393	MDL	5.46	PQL	mg/Kg	U	B
TIN	3.00	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	4.42	J	0.502	MDL	5.46	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: DE241 **Laboratory: LL**

EDD Filename: DE241_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-269-SA6-SB-1.5-2.5 ***Collected:*** 9/12/2011 10:46:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	70.0	J	6.05	MDL	102	PQL	mg/Kg	J	Z

Sample ID: SL-269-SA6-SB-1.5-2.5 ***Collected:*** 9/12/2011 10:46:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.35	J	0.366	MDL	5.09	PQL	mg/Kg	U	B
TIN	3.15	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.75	J	0.468	MDL	5.09	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-050-SA6-SB-1.0-2.0 ***Collected:*** 9/12/2011 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	0.270	J	0.0592	MDL	0.408	PQL	mg/Kg	J	Z, Q

Sample ID: SL-050-SA6-SB-1.0-2.0 ***Collected:*** 9/12/2011 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	0.944		0.0510	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-050-SA6-SB-1.0-2.0 ***Collected:*** 9/12/2011 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		0.108	MDL	0.408	PQL	mg/Kg	J	A

Sample ID: SL-050-SA6-SB-1.0-2.0 ***Collected:*** 9/12/2011 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	0.248		0.0755	MDL	0.204	PQL	mg/Kg	J	Q
BERYLLIUM	0.826		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CADMIUM	0.157		0.0449	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	23.3		0.122	MDL	0.408	PQL	mg/Kg	J	Q
COBALT	7.68		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE241 **Laboratory: LL**

EDD Filename: DE241_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-050-SA6-SB-1.0-2.0** ***Collected:*** **9/12/2011 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
COPPER	10.1		0.0817	MDL	0.408	PQL	mg/Kg	J	Q
LEAD	7.00		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, A
NICKEL	15.3		0.102	MDL	0.408	PQL	mg/Kg	J	Q
SILVER	0.0610	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.437		0.0306	MDL	0.102	PQL	mg/Kg	J	Q
ZINC	76.2		0.572	MDL	3.06	PQL	mg/Kg	J	A

Sample ID: **SL-051-SA6-SB-3.5-4.5** ***Collected:*** **9/12/2011 8:30:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.259	J	0.0592	MDL	0.408	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-051-SA6-SB-3.5-4.5** ***Collected:*** **9/12/2011 8:30:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.688		0.0510	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: **SL-051-SA6-SB-3.5-4.5** ***Collected:*** **9/12/2011 8:30:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	61.1		0.108	MDL	0.408	PQL	mg/Kg	J	A

Sample ID: **SL-051-SA6-SB-3.5-4.5** ***Collected:*** **9/12/2011 8:30:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.127	J	0.0755	MDL	0.204	PQL	mg/Kg	J	Z, Q
BERYLLIUM	0.681		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	15.7		0.122	MDL	0.408	PQL	mg/Kg	J	Q
COBALT	5.66		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, A
COPPER	5.94		0.0817	MDL	0.408	PQL	mg/Kg	J	Q
LEAD	4.66		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, A
NICKEL	11.3		0.102	MDL	0.408	PQL	mg/Kg	J	Q
SILVER	0.0479	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.280		0.0306	MDL	0.102	PQL	mg/Kg	J	Q
ZINC	50.6		0.572	MDL	3.06	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: DE241 **Laboratory:** LL

EDD Filename: DE241_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-055-SA6-SB-2.0-3.0 ***Collected:*** 9/12/2011 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	0.202	J	0.0585	MDL	0.403	PQL	mg/Kg	J	Z, Q

Sample ID: SL-055-SA6-SB-2.0-3.0 ***Collected:*** 9/12/2011 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	0.705		0.0504	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-055-SA6-SB-2.0-3.0 ***Collected:*** 9/12/2011 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	101		0.107	MDL	0.403	PQL	mg/Kg	J	A

Sample ID: SL-055-SA6-SB-2.0-3.0 ***Collected:*** 9/12/2011 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	0.115	J	0.0746	MDL	0.202	PQL	mg/Kg	J	Z, Q
BERYLLIUM	0.655		0.0161	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.210		0.0444	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	17.0		0.121	MDL	0.403	PQL	mg/Kg	J	Q
COBALT	5.60		0.0202	MDL	0.101	PQL	mg/Kg	J	Q, A
COPPER	8.02		0.0807	MDL	0.403	PQL	mg/Kg	J	Q
LEAD	6.98		0.0103	MDL	0.202	PQL	mg/Kg	J	Q, A
NICKEL	12.6		0.101	MDL	0.403	PQL	mg/Kg	J	Q
SILVER	0.0486	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.305		0.0303	MDL	0.101	PQL	mg/Kg	J	Q
ZINC	61.2		0.565	MDL	3.03	PQL	mg/Kg	J	A

Sample ID: SL-235-SA6-SB-4.0-5.0 ***Collected:*** 9/12/2011 9:01:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.193	J	0.0609	MDL	0.420	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE241 **Laboratory: LL**

EDD Filename: DE241_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-235-SA6-SB-4.0-5.0** ***Collected:*** **9/12/2011 9:01:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.944		0.0525	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: **SL-235-SA6-SB-4.0-5.0** ***Collected:*** **9/12/2011 9:01:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	125		0.111	MDL	0.420	PQL	mg/Kg	J	A

Sample ID: **SL-235-SA6-SB-4.0-5.0** ***Collected:*** **9/12/2011 9:01:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.311		0.0777	MDL	0.210	PQL	mg/Kg	J	Q
BERYLLIUM	1.28		0.0168	MDL	0.105	PQL	mg/Kg	J	Q
CADMIUM	0.181		0.0462	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	39.3		0.126	MDL	0.420	PQL	mg/Kg	J	Q
COBALT	12.7		0.0210	MDL	0.105	PQL	mg/Kg	J	Q, A
COPPER	20.2		0.0840	MDL	0.420	PQL	mg/Kg	J	Q
LEAD	11.9		0.0107	MDL	0.210	PQL	mg/Kg	J	Q, A
NICKEL	29.5		0.105	MDL	0.420	PQL	mg/Kg	J	Q
SILVER	0.222		0.0149	MDL	0.105	PQL	mg/Kg	J	Q
THALLIUM	0.442		0.0315	MDL	0.105	PQL	mg/Kg	J	Q
ZINC	92.2		0.588	MDL	3.15	PQL	mg/Kg	J	A

Sample ID: **SL-269-SA6-SB-1.5-2.5** ***Collected:*** **9/12/2011 10:46:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.309	J	0.0579	MDL	0.399	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-269-SA6-SB-1.5-2.5** ***Collected:*** **9/12/2011 10:46:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.647		0.0499	MDL	0.0998	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE241 **Laboratory: LL**

EDD Filename: DE241_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-269-SA6-SB-1.5-2.5 *Collected:* 9/12/2011 10:46:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	70.9		0.106	MDL	0.399	PQL	mg/Kg	J	A

Sample ID: SL-269-SA6-SB-1.5-2.5 *Collected:* 9/12/2011 10:46:00 *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	0.0738	MDL	0.200	PQL	mg/Kg	J	Z, Q
BERYLLIUM	0.708		0.0160	MDL	0.0998	PQL	mg/Kg	J	Q
CADMIUM	0.0546	J	0.0439	MDL	0.0998	PQL	mg/Kg	J	Z, Q
CHROMIUM	21.9		0.120	MDL	0.399	PQL	mg/Kg	J	Q
COBALT	7.18		0.0200	MDL	0.0998	PQL	mg/Kg	J	Q, A
COPPER	6.82		0.0798	MDL	0.399	PQL	mg/Kg	J	Q
LEAD	4.29		0.0102	MDL	0.200	PQL	mg/Kg	J	Q, A
NICKEL	13.1		0.0998	MDL	0.399	PQL	mg/Kg	J	Q
SILVER	0.0376	J	0.0142	MDL	0.0998	PQL	mg/Kg	J	Z, Q
THALLIUM	0.313		0.0299	MDL	0.0998	PQL	mg/Kg	J	Q
ZINC	66.6		0.559	MDL	2.99	PQL	mg/Kg	J	A

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-050-SA6-SB-1.0-2.0 *Collected:* 9/12/2011 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	0.79	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-235-SA6-SB-4.0-5.0 *Collected:* 9/12/2011 9:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.70	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-269-SA6-SB-1.5-2.5 *Collected:* 9/12/2011 10:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	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

Data Qualifier Summary

Lab Reporting Batch ID: DE241 **Laboratory:** LL

EDD Filename: DE241_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-050-SA6-SB-1.0-2.0 *Collected:* 9/12/2011 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	0.0171	J	0.0072	MDL	0.103	PQL	mg/Kg	U	B, B

Sample ID: SL-051-SA6-SB-3.5-4.5 *Collected:* 9/12/2011 8:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0186	J	0.0071	MDL	0.102	PQL	mg/Kg	U	B, B

Sample ID: SL-055-SA6-SB-2.0-3.0 *Collected:* 9/12/2011 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
MERCURY	0.0128	J	0.0068	MDL	0.0973	PQL	mg/Kg	U	B, B

Sample ID: SL-235-SA6-SB-4.0-5.0 *Collected:* 9/12/2011 9:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0111	J	0.0076	MDL	0.108	PQL	mg/Kg	U	B, B

Sample ID: SL-269-SA6-SB-1.5-2.5 *Collected:* 9/12/2011 10:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0073	J	0.0072	MDL	0.102	PQL	mg/Kg	U	B, B

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-050-SA6-SB-1.0-2.0 *Collected:* 9/12/2011 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
EFH (C8-C11)	0.64	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-269-SA6-SB-1.5-2.5 *Collected:* 9/12/2011 10:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.81	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

Data Qualifier Summary

Lab Reporting Batch ID: DE241 **Laboratory: LL**

EDD Filename: DE241_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-050-SA6-SB-1.0-2.0 *Collected:* 9/12/2011 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
AROCLOR 1254	0.87	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.65	J	0.40	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	3.2	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-051-SA6-SB-3.5-4.5 *Collected:* 9/12/2011 8:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.4	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-055-SA6-SB-2.0-3.0 *Collected:* 9/12/2011 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 5460	1.4	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-050-SA6-SB-1.0-2.0 *Collected:* 9/12/2011 10:10:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	UJ	Q
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	R	Q
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-051-SA6-SB-3.5-4.5 *Collected:* 9/12/2011 8:30:00 *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
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	160	J	17	MDL	340	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: DE241 **Laboratory: LL**

EDD Filename: DE241_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: **SL-055-SA6-SB-2.0-3.0** ***Collected:*** **9/12/2011 11:40:00** ***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	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	69	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: **SL-235-SA6-SB-4.0-5.0** ***Collected:*** **9/12/2011 9:01:00** ***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
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: **SL-269-SA6-SB-1.5-2.5** ***Collected:*** **9/12/2011 10:46:00** ***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
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

Method Category: SVOA

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

Sample ID: **SL-050-SA6-SB-1.0-2.0** ***Collected:*** **9/12/2011 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	0.49	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: **SL-055-SA6-SB-2.0-3.0** ***Collected:*** **9/12/2011 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	0.58	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE241 **Laboratory: LL**

EDD Filename: DE241_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DE241 **Laboratory: LL**

EDD Filename: DE241_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

Data Qualifier Summary

Lab Reporting Batch ID: DE241 **Laboratory: LL**

EDD Filename: DE241_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE241

Method Blank Outlier Report

Lab Reporting Batch ID: DE241 **Laboratory: LL**

EDD Filename: DE241_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P25708CB221307	9/22/2011 1:07:00 PM	BORON	0.683 mg/Kg	SL-050-SA6-SB-1.0-2.0
		CALCIUM	11.1 mg/Kg	SL-051-SA6-SB-3.5-4.5
		MANGANESE	0.0780 mg/Kg	SL-055-SA6-SB-2.0-3.0
		PHOSPHORUS	0.876 mg/Kg	SL-235-SA6-SB-4.0-5.0
		STRONTIUM	0.0590 mg/Kg	SL-269-SA6-SB-1.5-2.5
		TIN	1.70 mg/Kg	

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-050-SA6-SB-1.0-2.0(RES)	TIN	3.00 mg/Kg	3.00U mg/Kg
SL-051-SA6-SB-3.5-4.5(RES)	BORON	2.15 mg/Kg	2.15U mg/Kg
SL-051-SA6-SB-3.5-4.5(RES)	TIN	2.89 mg/Kg	2.89U mg/Kg
SL-055-SA6-SB-2.0-3.0(RES)	TIN	3.09 mg/Kg	3.09U mg/Kg
SL-235-SA6-SB-4.0-5.0(RES)	BORON	2.72 mg/Kg	2.72U mg/Kg
SL-235-SA6-SB-4.0-5.0(RES)	TIN	3.00 mg/Kg	3.00U mg/Kg
SL-269-SA6-SB-1.5-2.5(RES)	BORON	1.35 mg/Kg	1.35U mg/Kg
SL-269-SA6-SB-1.5-2.5(RES)	TIN	3.15 mg/Kg	3.15U mg/Kg

Method: 7471A
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P25711BB220853	9/16/2011 8:53:00 AM	MERCURY	0.0072 mg/Kg	SL-050-SA6-SB-1.0-2.0 SL-051-SA6-SB-3.5-4.5 SL-055-SA6-SB-2.0-3.0 SL-235-SA6-SB-4.0-5.0 SL-269-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-050-SA6-SB-1.0-2.0(RES)	MERCURY	0.0171 mg/Kg	0.0171U mg/Kg
SL-051-SA6-SB-3.5-4.5(RES)	MERCURY	0.0186 mg/Kg	0.0186U mg/Kg
SL-055-SA6-SB-2.0-3.0(RES)	MERCURY	0.0128 mg/Kg	0.0128U mg/Kg
SL-235-SA6-SB-4.0-5.0(RES)	MERCURY	0.0111 mg/Kg	0.0111U mg/Kg
SL-269-SA6-SB-1.5-2.5(RES)	MERCURY	0.0073 mg/Kg	0.0073U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE241 **Laboratory: LL**

EDD Filename: DE241_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-050-SA6-SB-1.0-2.0MS SL-050-SA6-SB-1.0-2.0MSD (SL-050-SA6-SB-1.0-2.0 SL -051-SA6-SB-3.5-4.5 SL -055-SA6-SB-2.0-3.0 SL -235-SA6-SB-4.0-5.0 SL -269-SA6-SB-1.5-2.5)	BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM	- 134 - 128 - - - 131 -	135 149 131 142 144 153 149 144 136	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - - - -	BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM	J (all detects)
SL-050-SA6-SB-1.0-2.0MS SL-050-SA6-SB-1.0-2.0MSD (SL-050-SA6-SB-1.0-2.0 SL -051-SA6-SB-3.5-4.5 SL -055-SA6-SB-2.0-3.0 SL -235-SA6-SB-4.0-5.0 SL -269-SA6-SB-1.5-2.5)	ANTIMONY ARSENIC VANADIUM ZINC	66 30 73 41	70 - 134 134	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ANTIMONY ARSENIC VANADIUM ZINC	J(all detects) UJ(all non-detects) As, V, Zn, No Qual, >4x
SL-050-SA6-SB-1.0-2.0MSD (SL-050-SA6-SB-1.0-2.0 SL -051-SA6-SB-3.5-4.5 SL -055-SA6-SB-2.0-3.0 SL -235-SA6-SB-4.0-5.0 SL -269-SA6-SB-1.5-2.5)	SELENIUM	-	145	75.00-125.00	-	SELENIUM	J(all detects)
SL-050-SA6-SB-1.0-2.0MS SL-050-SA6-SB-1.0-2.0MSD (SL-050-SA6-SB-1.0-2.0 SL -051-SA6-SB-3.5-4.5 SL -055-SA6-SB-2.0-3.0 SL -235-SA6-SB-4.0-5.0 SL -269-SA6-SB-1.5-2.5)	MOLYBDENUM	135	147	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-050-SA6-SB-1.0-2.0MS SL-050-SA6-SB-1.0-2.0MSD (SL-050-SA6-SB-1.0-2.0 SL -051-SA6-SB-3.5-4.5 SL -055-SA6-SB-2.0-3.0 SL -235-SA6-SB-4.0-5.0 SL -269-SA6-SB-1.5-2.5)	BARIUM	34	178	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-050-SA6-SB-1.0-2.0MS SL-050-SA6-SB-1.0-2.0MSD (SL-050-SA6-SB-1.0-2.0 SL -051-SA6-SB-3.5-4.5 SL -055-SA6-SB-2.0-3.0 SL -235-SA6-SB-4.0-5.0 SL -269-SA6-SB-1.5-2.5)	ALUMINUM CALCIUM TITANIUM	1087 152 266	846 141 245	75.00-125.00 75.00-125.00 75.00-125.00	- - -	ALUMINUM CALCIUM TITANIUM	No Qual,>4x
SL-050-SA6-SB-1.0-2.0MS SL-050-SA6-SB-1.0-2.0MSD (SL-050-SA6-SB-1.0-2.0 SL -051-SA6-SB-3.5-4.5 SL -055-SA6-SB-2.0-3.0 SL -235-SA6-SB-4.0-5.0 SL -269-SA6-SB-1.5-2.5)	IRON	726	-208	75.00-125.00	-	IRON	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE241 **Laboratory: LL**

EDD Filename: DE241_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-050-SA6-SB-1.0-2.0MS SL-050-SA6-SB-1.0-2.0MSD (SL-050-SA6-SB-1.0-2.0 SL -051-SA6-SB-3.5-4.5 SL -055-SA6-SB-2.0-3.0 SL -235-SA6-SB-4.0-5.0 SL -269-SA6-SB-1.5-2.5)	MAGNESIUM MANGANESE	229 -	73 74	75.00-125.00 75.00-125.00	- -	MAGNESIUM MANGANESE	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-050-SA6-SB-1.0-2.0MSD (SL-050-SA6-SB-1.0-2.0)	4,6-DINITRO-2-METHYLPHENOL	-	-	11.00-126.00	31 (30.00)	4,6-DINITRO-2-METHYLPHEN	J(all detects)
SL-050-SA6-SB-1.0-2.0MS SL-050-SA6-SB-1.0-2.0MSD (SL-050-SA6-SB-1.0-2.0)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)
SL-050-SA6-SB-1.0-2.0MS SL-050-SA6-SB-1.0-2.0MSD (SL-050-SA6-SB-1.0-2.0)	2,4-DINITROPHENOL	13	-	20.00-143.00	43 (30.00)	2,4-DINITROPHENOL	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE241 **Laboratory: LL**

EDD Filename: DE241_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-050-SA6-SB-1.0-2.0DUP (SL-050-SA6-SB-1.0-2.0 SL -051-SA6-SB-3.5-4.5 SL -055-SA6-SB-2.0-3.0 SL -235-SA6-SB-4.0-5.0 SL -269-SA6-SB-1.5-2.5)	HEXAVALENT CHROMIUM	36	20.00	No Qual, OK by Difference

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE241 **Laboratory: LL**

EDD Filename: DE241_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
P25726AQ220852A (SL-050-SA6-SB-1.0-2.0 SL -051-SA6-SB-3.5-4.5 SL -055-SA6-SB-2.0-3.0 SL -235-SA6-SB-4.0-5.0 SL -269-SA6-SB-1.5-2.5)	VANADIUM	121	-	80.00-120.00	-	VANADIUM	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
P25708CQ221311 P25708CQ221634 (SL-050-SA6-SB-1.0-2.0 SL -051-SA6-SB-3.5-4.5 SL -055-SA6-SB-2.0-3.0 SL -235-SA6-SB-4.0-5.0 SL -269-SA6-SB-1.5-2.5)	ALUMINUM IRON MAGNESIUM	149 141 126	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON MAGNESIUM	No Qual, SRM within Limits

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8LALCSQ260158 (SL-050-SA6-SB-1.0-2.0 SL -051-SA6-SB-3.5-4.5 SL -055-SA6-SB-2.0-3.0 SL -235-SA6-SB-4.0-5.0 SL -269-SA6-SB-1.5-2.5)	4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID	39 57	- -	46.00-120.00 62.00-113.00	- -	4,6-DINITRO-2-METHYLPHEN BENZOIC ACID	J(all detects) UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE241 **Laboratory: LL**

EDD Filename: DE241_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA6-SB-1.0-2.0	BORON	J	3.52	4.96	PQL	mg/Kg	J (all detects)
	SODIUM	J	71.2	99.1	PQL	mg/Kg	
	TIN	J	3.00	9.91	PQL	mg/Kg	
	Zirconium	J	2.26	4.96	PQL	mg/Kg	
SL-051-SA6-SB-3.5-4.5	BORON	J	2.15	5.10	PQL	mg/Kg	J (all detects)
	SODIUM	J	73.8	102	PQL	mg/Kg	
	TIN	J	2.89	10.2	PQL	mg/Kg	
	Zirconium	J	2.68	5.10	PQL	mg/Kg	
SL-055-SA6-SB-2.0-3.0	BORON	J	3.49	4.99	PQL	mg/Kg	J (all detects)
	SODIUM	J	88.3	99.9	PQL	mg/Kg	
	TIN	J	3.09	9.99	PQL	mg/Kg	
	Zirconium	J	2.35	4.99	PQL	mg/Kg	
SL-235-SA6-SB-4.0-5.0	BORON	J	2.72	5.46	PQL	mg/Kg	J (all detects)
	TIN	J	3.00	10.9	PQL	mg/Kg	
	Zirconium	J	4.42	5.46	PQL	mg/Kg	
SL-269-SA6-SB-1.5-2.5	BORON	J	1.35	5.09	PQL	mg/Kg	J (all detects)
	SODIUM	J	70.0	102	PQL	mg/Kg	
	TIN	J	3.15	10.2	PQL	mg/Kg	
	Zirconium	J	1.75	5.09	PQL	mg/Kg	

Method: 8020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA6-SB-1.0-2.0	SELENIUM	J	0.270	0.408	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0610	0.102	PQL	mg/Kg	
SL-051-SA6-SB-3.5-4.5	ANTIMONY	J	0.127	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.259	0.408	PQL	mg/Kg	
	SILVER	J	0.0479	0.102	PQL	mg/Kg	
SL-055-SA6-SB-2.0-3.0	ANTIMONY	J	0.115	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.202	0.403	PQL	mg/Kg	
	SILVER	J	0.0486	0.101	PQL	mg/Kg	
SL-235-SA6-SB-4.0-5.0	SELENIUM	J	0.193	0.420	PQL	mg/Kg	J (all detects)
SL-269-SA6-SB-1.5-2.5	ANTIMONY	J	0.178	0.200	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0546	0.0998	PQL	mg/Kg	
	SELENIUM	J	0.309	0.399	PQL	mg/Kg	
	SILVER	J	0.0376	0.0998	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA6-SB-1.0-2.0	HEXAVALENT CHROMIUM	J	0.79	1.0	PQL	mg/Kg	J (all detects)
SL-235-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.70	1.1	PQL	mg/Kg	J (all detects)
SL-269-SA6-SB-1.5-2.5	HEXAVALENT CHROMIUM	J	0.49	1.0	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE241 **Laboratory: LL**

EDD Filename: DE241_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA6-SB-1.0-2.0	MERCURY	J	0.0171	0.103	PQL	mg/Kg	J (all detects)
SL-051-SA6-SB-3.5-4.5	MERCURY	J	0.0186	0.102	PQL	mg/Kg	J (all detects)
SL-055-SA6-SB-2.0-3.0	MERCURY	J	0.0128	0.0973	PQL	mg/Kg	J (all detects)
SL-235-SA6-SB-4.0-5.0	MERCURY	J	0.0111	0.108	PQL	mg/Kg	J (all detects)
SL-269-SA6-SB-1.5-2.5	MERCURY	J	0.0073	0.102	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA6-SB-1.0-2.0	EFH (C8-C11)	J	0.64	1.2	PQL	mg/Kg	J (all detects)
SL-269-SA6-SB-1.5-2.5	EFH (C30-C40)	J	0.81	1.2	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA6-SB-1.0-2.0	AROCLOR 1254 AROCLOR 1260 Aroclor 5460	J J J	0.87 0.65 3.2	1.8 1.8 3.4	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-051-SA6-SB-3.5-4.5	Aroclor 5460	J	2.4	3.4	PQL	ug/Kg	J (all detects)
SL-055-SA6-SB-2.0-3.0	Aroclor 5460	J	1.4	3.4	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-051-SA6-SB-3.5-4.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	160	340	PQL	ug/Kg	J (all detects)
SL-055-SA6-SB-2.0-3.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	69	340	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA6-SB-1.0-2.0	CHRYSENE	J	0.49	1.7	PQL	ug/Kg	J (all detects)
SL-055-SA6-SB-2.0-3.0	CHRYSENE	J	0.58	1.7	PQL	ug/Kg	J (all detects)

LDC #: 26859K4 **VALIDATION COMPLETENESS WORKSHEET** Date: 12/27/11
SDG #: DE241 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
2nd Reviewer: A

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, As, Ba, Ca, Fe, Mg, Mn, Ti, V, Zn 75%, Mo 4x1.
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Co, Pb, Zn J/NJ/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: Soil

1	SL-050-SA6-SB-1.0-2.0	11		21		31	
2	SL-051-SA6-SB-3.5-4.5	12		22		32	
3	SL-055-SA6-SB-2.0-3.0	13		23		33	
4	SL-269-SA6-SB-1.5-2.5	14		24		34	
5	SL-235-SA6-SB-4.0-5.0	15		25		35	
6	#1 MS	16		26		36	
7	↓ MSD	17		27		37	
8	dup	18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 26859K4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer:
2nd Reviewer:

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: Hg: 167X
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: Hg*1: 1, Hg*2; 2-5
Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	2	3	4	5					
Hg*1			0.051	0.0426	0.017									
Hg*2			0.031	0.0259		0.019	0.013	0.0073	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.

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE241
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6404351BKG Matrix Spike Lab Sample ID: 6404351MS Matrix Spike Duplicate Lab Sample ID: 6404351MSD
% Solids for Sample: 97.0
Batch Id(s): P25708C, P25726A, P25711B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		13729.2883		15948.8007		15456.9776		204.1441	204.1441	MG/KG	1087		846		3			20	P
Antimony	121	0.2476		1.0459		1.1017		1.2129	1.2129	MG/KG	66	N	70	N	5		75 - 125	20	MS
Arsenic	75	10.8462		11.4574		13.1615		2.0214	2.0214	MG/KG	30		115		14			20	MS
Barium	137	110.7686		114.2308		128.8053		10.1071	10.1071	MG/KG	34		178		12			20	MS
Beryllium	9	0.8264		1.7091		1.9200		0.8086	0.8086	MG/KG	109		135	N	12		75 - 125	20	MS
Boron		3.5210	B	198.5781		197.9167		204.1441	204.1441	MG/KG	96		95		0		84 - 115	20	P
Cadmium	111	0.1568		1.5094		1.6620		1.0107	1.0107	MG/KG	134	N	149	N	10		75 - 125	20	MS
Calcium		2523.9175		3142.7284		3100.3542		408.2882	408.2882	MG/KG	152		141		1			20	P
Chromium	52	23.2928		33.2120		36.5676		10.1071	10.1071	MG/KG	98		131	N	10		75 - 125	20	MS
Cobalt	59	7.6840		72.3469		79.6644		50.5357	50.5357	MG/KG	128	N	142	N	10		75 - 125	20	MS
Copper	63	10.0561		22.3368		24.5603		10.1071	10.1071	MG/KG	122		144	N	9		75 - 125	20	MS
Iron		19354.3200		20095.0934		19142.2139		102.0721	102.0721	MG/KG	726		-208		5			20	P
Lead	208	7.0001		10.4508		11.6414		3.0321	3.0321	MG/KG	114		153	N	11		75 - 125	20	MS
Lithium		28.8352		127.9249		126.6245		102.0721	102.0721	MG/KG	97		96		1		82 - 114	20	P
Magnesium		4181.0329		4647.5452		4329.6652		204.1441	204.1441	MG/KG	229		73		7			20	P
Manganese		300.2686		354.3085		337.8493		51.0360	51.0360	MG/KG	106		74		5			20	P
Mercury		0.0171	B	0.1768		0.1867		0.1668	0.1682	MG/KG	96		101		5		65 - 135	20	CV
Molybdenum	98	0.9438		14.5543		15.8156		10.1071	10.1071	MG/KG	135	N	147	N	8		75 - 125	20	MS
Nickel	60	15.3373		27.2286		30.4427		10.1071	10.1071	MG/KG	118		149	N	11		75 - 125	20	MS
Phosphorus		381.1638		493.8379		496.8521		102.0721	102.0721	MG/KG	110		113		1		75 - 125	20	P
Potassium		3017.8509		4242.1241		3946.3101		1020.7206	1020.7206	MG/KG	120		91		7		75 - 125	20	P
Selenium	78	0.2701	B	2.8037		3.2080		2.0214	2.0214	MG/KG	125		145	N	13		75 - 125	20	MS
Silver	107	0.0610	B	13.3111		14.6655		10.1071	10.1071	MG/KG	131	N	144	N	10		75 - 125	20	MS
Sodium		71.2351	B	1044.8137		1041.5209		1020.7206	1020.7206	MG/KG	95		95		0		75 - 125	20	P
Strontium		16.3025		115.7456		114.3534		102.0721	102.0721	MG/KG	97		96		1		75 - 115	20	P
Thallium	203	0.4375		0.8539		0.9887		0.4043	0.4043	MG/KG	103		136	N	15		75 - 125	20	MS
Tin		3.0036	B	378.0749		385.5844		408.2882	408.2882	MG/KG	92		94		2		80 - 110	20	P
Titanium		1173.2266		1445.1842		1422.8407		102.0721	102.0721	MG/KG	266		245		2			20	P
Vanadium	51	46.1366		53.5274		59.6523		10.1071	10.1071	MG/KG	73		134		11			20	MS
Zinc	66	76.2478		80.3719		89.7514		10.1071	10.1071	MG/KG	41		134		11			20	MS
Zirconium		2.2591	B	85.8967		80.3777		102.0721	102.0721	MG/KG	82		77		7		75 - 125	20	P

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:
N = Matrix Spike OOS, * = Duplicate OOS

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE241
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6404351BKG Serial Dilution Lab Sample ID: 6404351L
Batch ID(s): P25708C, P25726A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		138501.0600		137731.4000		1		P
Antimony	121	1.2130		1.8500	U	100		MS
Arsenic	75	53.1300		47.6150		10		MS
Barium	137	542.6000		477.0500		12	E	MS
Beryllium	9	4.0480		3.6625		10		MS
Boron		35.5200	B	53.8000	B	51		P
Cadmium	111	0.7683		1.1000	U	100		MS
Calcium		25461.2800		25351.7500		0		P
Chromium	52	114.1000		111.5500		2		MS
Cobalt	59	37.6400		32.6950		13	E	MS
Copper	63	49.2600		45.6500		7		MS
Iron		195246.3800		187209.6500		4		P
Lead	208	34.2900		30.2950		12	E	MS
Lithium		290.8900		280.6500		4		P
Magnesium		42178.2600		41548.0000		1		P
Manganese		3029.1100		3090.3000		2		P
Molybdenum	98	4.6230		4.3675		6		MS
Nickel	60	75.1300		68.6500		9		MS
Phosphorus		3845.1800		3779.0000		2		P
Potassium		30444.0800		29515.6000		3		P
Selenium	78	1.3230	B	1.4500	U	100		MS
Silver	107	0.2988	B	0.3550	U	100		MS
Sodium		718.6200	B	652.1000	B	9		P
Strontium		164.4600		167.6000		2		P
Thallium	203	2.1430		1.9635	B	8		MS
Tin		30.3000	B	32.5500	B	7		P
Titanium		11835.5100		11934.5000		1		P
Vanadium	51	226.0000		217.2500		4		MS
Zinc	66	373.5000		334.0000		11	E	MS
Zirconium		22.7900	B	27.9000	B	22		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

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

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ
FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE260

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
03-Oct-2011	TB-100311	6427657	TB	3520C	1625C	III
03-Oct-2011	TB-100311	6427658	TB	3546	1625C	III
03-Oct-2011	TB-100311	6427659	TB	5030B	8015M	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	3050B	6010B	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	3050B	6020	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	3060A	7199	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	3546	1625C	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	3550B	8015B	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	3550B	8015M	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	3550B	8082	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	3550B	8270C	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	3550B	8270C SIM	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	5035	8015M	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	8330	8330A	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	METHOD	300.0	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	METHOD	314.0	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	METHOD	7471A	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	METHOD	8015B	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	METHOD	8015M	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	METHOD	8315A	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	METHOD	9012B	III
03-Oct-2011	EB-SA6-SB-100311	6427656	EB	3520C	1625C	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	3050B	6010B	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	3050B	6020	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	3060A	7199	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	3546	1625C	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	3550B	8015B	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	3550B	8015M	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	3550B	8082	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	3550B	8270C	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	3550B	8270C SIM	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	5035	8015M	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	8330	8330A	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	METHOD	300.0	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	METHOD	314.0	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	METHOD	7471A	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	METHOD	8015B	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	METHOD	8015M	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	METHOD	8315A	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	METHOD	9012B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE260 Laboratory: LL

EDD Filename: DE260_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-064-SA6-SB-4.0-5.0 *Collected:* 10/3/2011 3:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.64	J	0.367	MDL	5.09	PQL	mg/Kg	J	Z
POTASSIUM	2570		11.5	MDL	50.9	PQL	mg/Kg	J	Q
SODIUM	72.5	J	6.06	MDL	102	PQL	mg/Kg	J	Z
TIN	2.23	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.33	J	0.468	MDL	5.09	PQL	mg/Kg	J	Z

Sample ID: SL-064-SA6-SB-9.0-10.0 *Collected:* 10/3/2011 4:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.27	J	0.400	MDL	5.56	PQL	mg/Kg	J	Z
POTASSIUM	2180		12.6	MDL	55.6	PQL	mg/Kg	J	Q
TIN	2.45	J	0.356	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	1.43	J	0.511	MDL	5.56	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-064-SA6-SB-4.0-5.0 *Collected:* 10/3/2011 3:30:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.147	J	0.0596	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: SL-064-SA6-SB-4.0-5.0 *Collected:* 10/3/2011 3:30:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.641		0.0514	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-064-SA6-SB-4.0-5.0 *Collected:* 10/3/2011 3:30:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	73.5		0.109	MDL	0.411	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: DE260 Laboratory: LL

EDD Filename: DE260_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-064-SA6-SB-4.0-5.0 *Collected:* 10/3/2011 3:30:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	8.03		0.0831	MDL	0.415	PQL	mg/Kg	J	Q

Sample ID: SL-064-SA6-SB-4.0-5.0 *Collected:* 10/3/2011 3:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0761	U	0.0761	MDL	0.206	PQL	mg/Kg	UJ	Q
ARSENIC	5.18		0.0823	MDL	0.411	PQL	mg/Kg	J	Q, E
CADMIUM	0.108		0.0452	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	17.5		0.123	MDL	0.411	PQL	mg/Kg	J	Q
COBALT	6.04		0.0206	MDL	0.103	PQL	mg/Kg	J	Q, A
LEAD	5.53		0.0105	MDL	0.206	PQL	mg/Kg	J	A
NICKEL	11.0		0.103	MDL	0.411	PQL	mg/Kg	J	Q
SILVER	0.0428	J	0.0146	MDL	0.103	PQL	mg/Kg	UJ	B, Q
THALLIUM	0.338		0.0308	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	33.8		0.0226	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-064-SA6-SB-9.0-10.0 *Collected:* 10/3/2011 4:00:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.159	J	0.0632	MDL	0.436	PQL	mg/Kg	J	Z

Sample ID: SL-064-SA6-SB-9.0-10.0 *Collected:* 10/3/2011 4:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.08		0.0545	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-064-SA6-SB-9.0-10.0 *Collected:* 10/3/2011 4:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	76.8		0.116	MDL	0.436	PQL	mg/Kg	J	A

Sample ID: SL-064-SA6-SB-9.0-10.0 *Collected:* 10/3/2011 4:00:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	7.68		0.0907	MDL	0.454	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: DE260 **Laboratory: LL**

EDD Filename: DE260_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-064-SA6-SB-9.0-10.0 *Collected:* 10/3/2011 4:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0807	U	0.0807	MDL	0.218	PQL	mg/Kg	UJ	Q
ARSENIC	5.14		0.0872	MDL	0.436	PQL	mg/Kg	J	Q, E
CADMIUM	0.0798	J	0.0480	MDL	0.109	PQL	mg/Kg	J	Z, Q
CHROMIUM	19.1		0.131	MDL	0.436	PQL	mg/Kg	J	Q
COBALT	5.35		0.0218	MDL	0.109	PQL	mg/Kg	J	Q, A
LEAD	6.35		0.0111	MDL	0.218	PQL	mg/Kg	J	A
NICKEL	11.6		0.109	MDL	0.436	PQL	mg/Kg	J	Q
SILVER	0.0502	J	0.0155	MDL	0.109	PQL	mg/Kg	UJ	B, Q
THALLIUM	0.263		0.0327	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	39.5		0.0240	MDL	0.109	PQL	mg/Kg	J	E

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-064-SA6-SB-4.0-5.0 *Collected:* 10/3/2011 3:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.68	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-064-SA6-SB-9.0-10.0 *Collected:* 10/3/2011 4:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.28	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-064-SA6-SB-4.0-5.0 *Collected:* 10/3/2011 3:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0154	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE260 Laboratory: LL

EDD Filename: DE260_v1. eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-064-SA6-SB-9.0-10.0 *Collected:* 10/3/2011 4:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0194	J	0.0080	MDL	0.113	PQL	mg/Kg	J	Z

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

Sample ID: EB-SA6-SB-100311 *Collected:* 10/3/2011 3:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	2.62		0.478	MDL	0.957	PQL	ng/L	J	S

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

Sample ID: SL-064-SA6-SB-4.0-5.0 *Collected:* 10/3/2011 3:30:00 *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	2.5		0.40	MDL	1.8	PQL	ug/Kg	J	S
Aroclor 5460	1.2	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z, S

Sample ID: SL-064-SA6-SB-9.0-10.0 *Collected:* 10/3/2011 4:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.70	J	0.44	MDL	1.9	PQL	ug/Kg	J	Z

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

Sample ID: SL-064-SA6-SB-9.0-10.0 *Collected:* 10/3/2011 4:00:00 *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	30	J	19	MDL	370	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE260 Laboratory: LL

EDD Filename: DE260_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-064-SA6-SB-9.0-10.0 *Collected:* 10/3/2011 4:00:00 *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	1.1	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.87	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	0.81	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	0.98	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	0.76	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE260 **Laboratory: LL**

EDD Filename: DE260_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DE260 **Laboratory: LL**

EDD Filename: DE260_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

Data Qualifier Summary

Lab Reporting Batch ID: DE260 **Laboratory: LL**

EDD Filename: DE260_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE260

Method Blank Outlier Report

Lab Reporting Batch ID: DE260 **Laboratory: LL**

EDD Filename: DE260_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27808DB221629	10/12/2011 4:29:00 PM	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS STRONTIUM TIN	14.0 mg/Kg 13.0 mg/Kg 7.03 mg/Kg 5.37 mg/Kg 0.0762 mg/Kg 1.34 mg/Kg 0.0535 mg/Kg 1.32 mg/Kg	SL-064-SA6-SB-4.0-5.0 SL-064-SA6-SB-9.0-10.0
P28608BB221042	10/14/2011 10:42:00 AM	TITANIUM	0.0860 mg/Kg	SL-064-SA6-SB-4.0-5.0 SL-064-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-064-SA6-SB-4.0-5.0(RES)	TIN	2.23 mg/Kg	2.23U mg/Kg
SL-064-SA6-SB-9.0-10.0(RES)	TIN	2.45 mg/Kg	2.45U mg/Kg

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27826AB220430A	10/7/2011 4:30:00 AM	LEAD SILVER	0.121 mg/Kg 0.0360 mg/Kg	SL-064-SA6-SB-4.0-5.0 SL-064-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-064-SA6-SB-4.0-5.0(RES)	SILVER	0.0428 mg/Kg	0.0428U mg/Kg
SL-064-SA6-SB-9.0-10.0(RES)	SILVER	0.0502 mg/Kg	0.0502U mg/Kg

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE260 **Laboratory: LL**

EDD Filename: DE260_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
P27826AQ220409A (SL-064-SA6-SB-4.0-5.0 SL -064-SA6-SB-9.0-10.0)	ANTIMONY	76	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within Limits

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P5LELCSQ260717 (SL-064-SA6-SB-4.0-5.0 SL -064-SA6-SB-9.0-10.0)	2,4,5-TRICHLOROPHENOL	109	-	76.00-107.00	-	2,4,5-TRICHLOROPHENOL	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE260 **Laboratory: LL**

EDD Filename: DE260_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-100311	N-Nitrosodimethylamine-d6	257	50.00-150.00	All Target Analytes	J (all detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-064-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL	219	45.00-120.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE260 **Laboratory: LL**

EDD Filename: DE260_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-064-SA6-SB-4.0-5.0	BORON	J	2.64	5.09	PQL	mg/Kg	J (all detects)
	SODIUM	J	72.5	102	PQL	mg/Kg	
	TIN	J	2.23	10.2	PQL	mg/Kg	
	Zirconium	J	1.33	5.09	PQL	mg/Kg	
SL-064-SA6-SB-9.0-10.0	BORON	J	3.27	5.56	PQL	mg/Kg	J (all detects)
	TIN	J	2.45	11.1	PQL	mg/Kg	
	Zirconium	J	1.43	5.56	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-064-SA6-SB-4.0-5.0	SELENIUM	J	0.147	0.411	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0428	0.103	PQL	mg/Kg	
SL-064-SA6-SB-9.0-10.0	CADMIUM	J	0.0798	0.109	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.159	0.436	PQL	mg/Kg	
	SILVER	J	0.0502	0.109	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-064-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.68	1.0	PQL	mg/Kg	J (all detects)
SL-064-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.28	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-064-SA6-SB-4.0-5.0	MERCURY	J	0.0154	0.101	PQL	mg/Kg	J (all detects)
SL-064-SA6-SB-9.0-10.0	MERCURY	J	0.0194	0.113	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-064-SA6-SB-4.0-5.0	Aroclor 5460	J	1.2	3.4	PQL	ug/Kg	J (all detects)
SL-064-SA6-SB-9.0-10.0	AROCLOR 1260	J	0.70	1.9	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE260 **Laboratory: LL**

EDD Filename: DE260_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-064-SA6-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	30	370	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-064-SA6-SB-9.0-10.0	ANTHRACENE	J	1.1	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.87	1.9	PQL	ug/Kg	
	CHRYSENE	J	0.81	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	0.98	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.9	PQL	ug/Kg	
	PYRENE	J	0.76	1.9	PQL	ug/Kg	

LDC #: 26864D4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/4/12
SDG #: DE260 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
2nd Reviewer: C

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 ICB/CCB
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	see DE XSB
VII.	Duplicate Sample Analysis	SW	As, Cu, V J/UJ
VIII.	Laboratory Control Samples (LCS)	NA	SW
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Co, Pb J/UJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

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

Validated Samples: Soil

1	SL-064-SA6-SB-4.0-5.0	11		21		31	
2	SL-064-SA6-SB-9.0-10.0	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:

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE258
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6423856BKG Matrix Spike Lab Sample ID: 6423857MS Matrix Spike Duplicate Lab Sample ID: 6423858MSD
% Solids for Sample: 96.7
Batch Id(s): P27808D, P27826A, P27811B, P28608B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		17858.0186		22300.3030		23324.8282		206.8252	204.7775	MG/KG	2148		2670		4			20	P
Antimony	121	0.2064		0.5299		0.6505		1.2048	1.2166	MG/KG	27	N	37	N	20		75 - 125	20	MS
Arsenic	75	6.7867		10.6164		11.0428		2.0080	2.0277	MG/KG	191	N	210	N	4		75 - 125	20	MS
Barium	137	93.1525		113.3924		125.6362		10.0401	10.1385	MG/KG	202		320		10			20	MS
Beryllium	9	0.6560		1.5582		1.5978		0.8032	0.8111	MG/KG	112		116		3		75 - 125	20	MS
Boron		11.1645		223.4374		218.6962		206.8252	204.7775	MG/KG	103		101		2		84 - 115	20	P
Cadmium	111	0.3001		1.4231		1.6258		1.0040	1.0138	MG/KG	112		131	N	13		75 - 125	20	MS
Calcium		144449.7527		155159.0900		148171.7315		413.6505	409.5549	MG/KG	2589		909		5			20	P
Chromium	52	29.9288		46.7666		51.0169		10.0401	10.1385	MG/KG	168	N	208	N	9		75 - 125	20	MS
Cobalt	59	9.6012		64.7985		75.0654		50.2003	50.6925	MG/KG	110		129	N	15		75 - 125	20	MS
~~Copper~~	~~63~~	~~18.7927~~		~~31.8471~~		~~35.7280~~		~~10.0401~~	~~10.1385~~	MG/KG	130	N	167	N	~~11~~		~~75 - 125~~	20	MS
Iron		20924.6378		21719.1727		21613.1314		103.4126	102.3887	MG/KG	768		672		0			20	P
Lead	208	20.7636		24.3973		28.5297		3.0120	3.0415	MG/KG	121		255		16			20	MS
Lithium		18.4627		122.8925		123.0897		103.4126	102.3887	MG/KG	101		102		0		82 - 114	20	P
Magnesium		6096.2884		6407.6267		6695.9311		206.8252	204.7775	MG/KG	151		293		4			20	P
Manganese		278.1615		392.4602		335.8524		51.7063	51.1944	MG/KG	221		113		16			20	P
Mercury		0.0184	B	0.1771		0.1746		0.1719	0.1632	MG/KG	92		96		1		65 - 135	20	CV
Molybdenum	98	0.3220		11.9959		13.8755		10.0401	10.1385	MG/KG	116		134	N	15		75 - 125	20	MS
Nickel	60	17.0509		30.7226		35.2008		10.0401	10.1385	MG/KG	136	N	179	N	14		75 - 125	20	MS
Phosphorus		451.9694		554.2875		561.3790		103.4126	102.3887	MG/KG	99		107		1			20	P
Potassium		3129.6641		4662.5305		4882.3103		1034.1262	1023.8873	MG/KG	148	N	171	N	5		75 - 125	20	P
Selenium	78	0.2524	B	2.2450		2.4920		2.0080	2.0277	MG/KG	99		110		10		75 - 125	20	MS
Silver	107	0.0229	B	11.1083		12.8536		10.0401	10.1385	MG/KG	110		127	N	15		75 - 125	20	MS
Sodium		120.5463		1145.3826		1132.5709		1034.1262	1023.8873	MG/KG	99		99		1		75 - 125	20	P
Strontium		155.8316		252.2285		244.8186		103.4126	102.3887	MG/KG	93		87		3		75 - 115	20	P
Thallium	203	0.2567		0.7472		0.8413		0.4016	0.4055	MG/KG	122		144	N	12		75 - 125	20	MS
Tin		1.9382	B	335.1375		327.8016		413.6505	409.5549	MG/KG	81		80		2		80 - 110	20	P
Titanium		832.4328		1152.5961		1129.9658		102.3887	99.4352	MG/KG	313		299		2			20	P
Vanadium	51	51.6252		76.0635		80.4996		10.0401	10.1385	MG/KG	243		285		6			20	MS
Zinc	66	55.0926		69.6780		73.4027		10.0401	10.1385	MG/KG	145		181		5			20	MS
Zirconium		3.4044	B	102.5222		101.6802		103.4126	102.3887	MG/KG	96		96		1		81 - 110	20	P

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:
N = Matrix Spike OOS, * = Duplicate OOS

Zr: post spike 86%

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE258
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6423870BKG Matrix Spike Lab Sample ID: 6423870MS Matrix Spike Duplicate Lab Sample ID: 6423870MSD
% Solids for Sample: 95.6
Batch Id(s): P28026A

		BKG Sample		MS Sample		MSD Sample		MS Spike	MSD Spike		MS		MSD				Control Limit		
Analyte	Mass	Result	C	Result	C	Result	C	Added	Added	Units	%R	Q	%R	Q	RPD	Q	%R	RPD	M
Copper	63	5.0798		18.1827		16.9659		10.0579	10.1556	MG/KG	130	N	117		7		75 - 125	20	MS

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:
N = Matrix Spike OOS, * = Duplicate OOS

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE258
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6423856BKG
% Solids for Duplicate: 96.7
Batch ID(s): P27808D, P27826A, P27811B, P28608B
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6423859DUP
% Solids for Sample: 96.7

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			17858.0186		18271.4323		2		P
Antimony	121	0.2	0.2064		0.2325		12		MS
Arsenic	75		6.7867		9.1520		30	*	MS
Barium	137		93.1525		111.0691		18		MS
Beryllium	9		0.6560		0.7943		19		MS
Boron		5.1	11.1645		10.9478		2		P
Cadmium	111	0.1	0.3001		0.3639		19		MS
Calcium			144449.7527		138710.8176		4		P
Chromium	52		29.9288		35.0609		16		MS
Cobalt	59		9.6012		9.4821		1		MS
~~Copper~~	~~63~~		~~18.7927~~		~~23.6855~~		~~23~~	~~*~~	~~MS~~
Iron			20924.6378		24569.3700		16		P
Lead	208		20.7636		23.8247		14		MS
Lithium			18.4627		18.3289		1		P
Magnesium			6096.2884		6123.6775		0		P
Manganese			278.1615		312.9554		12		P
Mercury			0.0184	B	0.0131	B	34		CV
Molybdenum	98	0.1	0.3220		0.4552		~~34~~	~~*~~	MS
Nickel	60		17.0509		20.4240		18		MS
Phosphorus			451.9694		459.9704		2		P
Potassium			3129.6641		3148.4160		1		P
Selenium	78		0.2524	B	0.3035	B	18		MS
Silver	107		0.0229	B	0.0176	B	26		MS
Sodium		102.4	120.5463		112.0794		7		P
Strontium			155.8316		154.3215		1		P
Thallium	203	0.1	0.2567		0.3128		20		MS
Tin			1.9382	B	1.9459	B	0		P
Titanium			832.4328		843.8091		1		P
Vanadium	51		51.6252		64.9113		23	*	MS
Zinc	66		55.0926		67.0591		20		MS
Zirconium			3.4044	B	4.1902	B	21		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.

DE258 3459

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE258
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6423870BKG
% Solids for Duplicate: 95.6
Batch ID(s): P28026A
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6423870DUP
% Solids for Sample: 95.6

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Copper	63		5.0798		5.3399		5		MS

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.

DE258 3428

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

SAMPLE DELIVERY GROUP

DE261

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
04-Oct-2011	TB-100411	6429934	TB	3520C	1625C	III
04-Oct-2011	TB-100411	6429935	TB	3546	1625C	III
04-Oct-2011	TB-100411	6429936	TB	5030B	8015M	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	3050B	6010B	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	3050B	6020	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	3060A	7199	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	3546	1625C	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	3550B	8015B	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	3550B	8015M	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	3550B	8082	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	3550B	8270C	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	3550B	8270C SIM	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	5035	8015M	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	8330	8330A	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	METHOD	300.0	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	METHOD	314.0	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	METHOD	7471A	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	METHOD	8015B	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	METHOD	8015M	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	METHOD	8315A	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	METHOD	9012B	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	3050B	6010B	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	3050B	6020	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	3060A	7199	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	3546	1625C	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	3550B	8015B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	3550B	8015M	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	3550B	8082	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	3550B	8270C	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	3550B	8270C SIM	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	5035	8015M	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	8330	8330A	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	METHOD	300.0	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	METHOD	314.0	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	METHOD	7471A	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	METHOD	8015B	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	METHOD	8015M	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	METHOD	8315A	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	METHOD	9012B	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	3050B	6010B	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	3050B	6020	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	3060A	7199	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	3550B	8015B	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	3550B	8015M	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	3550B	8082	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	3550B	8270C	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	3550B	8270C SIM	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	5035	8015M	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	METHOD	300.0	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	METHOD	314.0	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	METHOD	7471A	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	METHOD	8015B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	METHOD	8015M	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0DUP	P429932D270442B	DUP	METHOD	300.0	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0DUP	P429932D271929B	DUP	METHOD	314.0	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0MS	P429932R270519B	MS	METHOD	300.0	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0MS	P429932R272015B	MS	METHOD	314.0	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0	6429927	N	3050B	6010B	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0	6429927	N	3050B	6020	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0	6429927	N	3060A	7199	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0	6429927	N	3550B	8082	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0	6429927	N	3550B	8270C	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0	6429927	N	3550B	8270C SIM	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0	6429927	N	METHOD	300.0	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0	6429927	N	METHOD	314.0	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0	6429927	N	METHOD	6850	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0	6429927	N	METHOD	7471A	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0MSD	P429927M242138A	MSD	METHOD	6850	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0MS	P429927R242125A	MS	METHOD	6850	III
04-Oct-2011	EB-SA6-SB-100411	6429933	EB	3520C	1625C	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	3050B	6010B	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	3050B	6020	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	3060A	7199	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	3546	1625C	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	3550B	8015B	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	3550B	8015M	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	3550B	8082	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	3550B	8270C	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	3550B	8270C SIM	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	5035	8015M	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	8330	8330A	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	METHOD	300.0	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	METHOD	314.0	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	METHOD	7471A	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	METHOD	8015B	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	METHOD	8015M	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	METHOD	8315A	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	METHOD	9012B	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	3050B	6010B	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	3050B	6020	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	3060A	7199	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	3546	1625C	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	3550B	8015B	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	3550B	8015M	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	3550B	8082	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	3550B	8270C	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	3550B	8270C SIM	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	5035	8015M	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	8330	8330A	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	METHOD	300.0	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	METHOD	314.0	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	METHOD	7471A	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	METHOD	8015B	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	METHOD	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	METHOD	8315A	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	METHOD	9012B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE261 **Laboratory:** LL

EDD Filename: DE261_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-191-SA6-SB-0.0-1.0 *Collected:* 10/4/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.90	J	0.82	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-225-SA6-SB-3.0-4.0 *Collected:* 10/4/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.93	J	0.86	MDL	1.1	PQL	mg/Kg	J	Z, Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-007-SA6-SB-1.0-2.0 *Collected:* 10/4/2011 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	1.24	J	0.379	MDL	5.27	PQL	mg/Kg	U	B
POTASSIUM	2920		11.9	MDL	52.7	PQL	mg/Kg	J	Q
SODIUM	73.3	J	6.27	MDL	105	PQL	mg/Kg	J	Z
TIN	2.96	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.77	J	0.485	MDL	5.27	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA6-SB-4.0-5.0 *Collected:* 10/4/2011 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	1.84	J	0.362	MDL	5.02	PQL	mg/Kg	J	Z
POTASSIUM	1340		11.4	MDL	50.2	PQL	mg/Kg	J	Q
SODIUM	88.5	J	5.98	MDL	100	PQL	mg/Kg	J	Z
TIN	2.61	J	0.322	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	2.72	J	0.462	MDL	5.02	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA6-SB-9.0-10.0 *Collected:* 10/4/2011 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
BORON	1.45	J	0.404	MDL	5.61	PQL	mg/Kg	U	B
POTASSIUM	1160		12.7	MDL	56.1	PQL	mg/Kg	J	Q
TIN	2.99	J	0.359	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	2.95	J	0.516	MDL	5.61	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: DE261 Laboratory: LL

EDD Filename: DE261_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-191-SA6-SB-0.0-1.0 *Collected:* 10/4/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.00	J	0.355	MDL	4.93	PQL	mg/Kg	J	Z
POTASSIUM	2590		11.1	MDL	49.3	PQL	mg/Kg	J	Q
TIN	2.60	J	0.315	MDL	9.86	PQL	mg/Kg	U	B
Zirconium	3.01	J	0.453	MDL	4.93	PQL	mg/Kg	J	Z

Sample ID: SL-206-SA6-SB-4.0-5.0 *Collected:* 10/4/2011 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
BORON	0.558	J	0.370	MDL	5.14	PQL	mg/Kg	U	B
POTASSIUM	1800		11.6	MDL	51.4	PQL	mg/Kg	J	Q
SODIUM	83.7	J	6.11	MDL	103	PQL	mg/Kg	J	Z
TIN	3.01	J	0.329	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	3.05	J	0.473	MDL	5.14	PQL	mg/Kg	J	Z

Sample ID: SL-225-SA6-SB-3.0-4.0 *Collected:* 10/4/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.63	J	0.382	MDL	5.31	PQL	mg/Kg	U	B
POTASSIUM	2600		12.0	MDL	53.1	PQL	mg/Kg	J	Q
SODIUM	100	J	6.32	MDL	106	PQL	mg/Kg	J	Z
TIN	2.90	J	0.340	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	3.33	J	0.489	MDL	5.31	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-007-SA6-SB-1.0-2.0 *Collected:* 10/4/2011 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	0.0613	J	0.0605	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA6-SB-1.0-2.0 *Collected:* 10/4/2011 11:50:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	72.1		0.111	MDL	0.417	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: DE261 Laboratory: LL

EDD Filename: DE261_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-007-SA6-SB-1.0-2.0 *Collected:* 10/4/2011 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	0.101	J	0.0772	MDL	0.209	PQL	mg/Kg	UJ	B, Q
CADMIUM	0.0585	J	0.0459	MDL	0.104	PQL	mg/Kg	J	Z, Q
COBALT	4.47		0.0209	MDL	0.104	PQL	mg/Kg	J	Q, A
COPPER	5.37		0.0834	MDL	0.417	PQL	mg/Kg	J	Q, A
LEAD	3.51		0.0106	MDL	0.209	PQL	mg/Kg	J	A
NICKEL	8.49		0.104	MDL	0.417	PQL	mg/Kg	J	A
THALLIUM	0.222		0.0313	MDL	0.104	PQL	mg/Kg	J	Q
ZINC	54.1		0.584	MDL	3.13	PQL	mg/Kg	J	A

Sample ID: SL-037-SA6-SB-4.0-5.0 *Collected:* 10/4/2011 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	0.106	J	0.0583	MDL	0.402	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA6-SB-4.0-5.0 *Collected:* 10/4/2011 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	52.1		0.107	MDL	0.402	PQL	mg/Kg	J	A

Sample ID: SL-037-SA6-SB-4.0-5.0 *Collected:* 10/4/2011 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	0.103	J	0.0744	MDL	0.201	PQL	mg/Kg	UJ	B, Q
COBALT	5.03		0.0201	MDL	0.100	PQL	mg/Kg	J	Q, A
COPPER	4.00		0.0804	MDL	0.402	PQL	mg/Kg	J	Q, A
LEAD	4.39		0.0102	MDL	0.201	PQL	mg/Kg	J	A
NICKEL	7.58		0.100	MDL	0.402	PQL	mg/Kg	J	A
SILVER	0.0330	J	0.0143	MDL	0.100	PQL	mg/Kg	J	Z, Q
THALLIUM	0.210		0.0301	MDL	0.100	PQL	mg/Kg	J	Q
ZINC	37.1		0.563	MDL	3.01	PQL	mg/Kg	J	A

Sample ID: SL-037-SA6-SB-9.0-10.0 *Collected:* 10/4/2011 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	0.0771	J	0.0657	MDL	0.453	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: DE261 **Laboratory:** LL

EDD Filename: DE261_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-037-SA6-SB-9.0-10.0 *Collected:* 10/4/2011 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
BARIUM	77.5		0.120	MDL	0.453	PQL	mg/Kg	J	A

Sample ID: SL-037-SA6-SB-9.0-10.0 *Collected:* 10/4/2011 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	0.144	J	0.0838	MDL	0.227	PQL	mg/Kg	UJ	B, Q
COBALT	3.45		0.0227	MDL	0.113	PQL	mg/Kg	J	Q, A
COPPER	6.59		0.0906	MDL	0.453	PQL	mg/Kg	J	Q, A
LEAD	5.16		0.0116	MDL	0.227	PQL	mg/Kg	J	A
NICKEL	8.57		0.113	MDL	0.453	PQL	mg/Kg	J	A
SILVER	0.0467	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.251		0.0340	MDL	0.113	PQL	mg/Kg	J	Q
ZINC	39.2		0.634	MDL	3.40	PQL	mg/Kg	J	A

Sample ID: SL-191-SA6-SB-0.0-1.0 *Collected:* 10/4/2011 3:15:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0608	J	0.0577	MDL	0.398	PQL	mg/Kg	J	Z

Sample ID: SL-191-SA6-SB-0.0-1.0 *Collected:* 10/4/2011 3:15:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	117		0.106	MDL	0.398	PQL	mg/Kg	J	A

Sample ID: SL-191-SA6-SB-0.0-1.0 *Collected:* 10/4/2011 3:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.259		0.0737	MDL	0.199	PQL	mg/Kg	UJ	B, Q
CADMIUM	0.223		0.0438	MDL	0.0995	PQL	mg/Kg	J	Q
COBALT	6.19		0.0199	MDL	0.0995	PQL	mg/Kg	J	Q, A
COPPER	12.6		0.0796	MDL	0.398	PQL	mg/Kg	J	Q, A
LEAD	10.8		0.0102	MDL	0.199	PQL	mg/Kg	J	A
NICKEL	14.0		0.0995	MDL	0.398	PQL	mg/Kg	J	A
SILVER	0.0948	J	0.0141	MDL	0.0995	PQL	mg/Kg	J	Z, Q
THALLIUM	0.234		0.0299	MDL	0.0995	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE261 Laboratory: LL

EDD Filename: DE261_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-191-SA6-SB-0.0-1.0 *Collected:* 10/4/2011 3:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	62.0		0.557	MDL	2.99	PQL	mg/Kg	J	A

Sample ID: SL-206-SA6-SB-4.0-5.0 *Collected:* 10/4/2011 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
BARIUM	97.3		0.110	MDL	0.415	PQL	mg/Kg	J	A

Sample ID: SL-206-SA6-SB-4.0-5.0 *Collected:* 10/4/2011 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	0.132	J	0.0768	MDL	0.207	PQL	mg/Kg	UJ	B, Q
COBALT	6.00		0.0207	MDL	0.104	PQL	mg/Kg	J	Q, A
COPPER	6.49		0.0830	MDL	0.415	PQL	mg/Kg	J	Q, A
LEAD	4.99		0.0106	MDL	0.207	PQL	mg/Kg	J	A
NICKEL	10.3		0.104	MDL	0.415	PQL	mg/Kg	J	A
SILVER	0.0261	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.267		0.0311	MDL	0.104	PQL	mg/Kg	J	Q
ZINC	61.4		0.581	MDL	3.11	PQL	mg/Kg	J	A

Sample ID: SL-225-SA6-SB-3.0-4.0 *Collected:* 10/4/2011 10:00:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.138	J	0.0622	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-225-SA6-SB-3.0-4.0 *Collected:* 10/4/2011 10:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	134		0.114	MDL	0.429	PQL	mg/Kg	J	A

Sample ID: SL-225-SA6-SB-3.0-4.0 *Collected:* 10/4/2011 10:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.157	J	0.0794	MDL	0.215	PQL	mg/Kg	UJ	B, Q
CADMIUM	0.128		0.0472	MDL	0.107	PQL	mg/Kg	J	Q
COBALT	8.81		0.0215	MDL	0.107	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE261 Laboratory: LL

EDD Filename: DE261_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6020 **Matrix:** SO

Sample ID: SL-225-SA6-SB-3.0-4.0 *Collected:* 10/4/2011 10:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	11.9		0.0858	MDL	0.429	PQL	mg/Kg	J	Q, A
LEAD	8.34		0.0109	MDL	0.215	PQL	mg/Kg	J	A
NICKEL	18.9		0.107	MDL	0.429	PQL	mg/Kg	J	A
SILVER	0.0489	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.343		0.0322	MDL	0.107	PQL	mg/Kg	J	Q
ZINC	76.0		0.601	MDL	3.22	PQL	mg/Kg	J	A

Method Category: METALS
Method: 7199 **Matrix:** SO

Sample ID: SL-037-SA6-SB-4.0-5.0 *Collected:* 10/4/2011 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	0.41	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA6-SB-9.0-10.0 *Collected:* 10/4/2011 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
HEXAVALENT CHROMIUM	0.27	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-225-SA6-SB-3.0-4.0 *Collected:* 10/4/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

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

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

Sample ID: SL-007-SA6-SB-1.0-2.0 *Collected:* 10/4/2011 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	0.0112	J	0.0072	MDL	0.102	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: DE261 Laboratory: LL

EDD Filename: DE261_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A Matrix: SO

Sample ID: SL-037-SA6-SB-4.0-5.0 *Collected:* 10/4/2011 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
MERCURY	0.0105	J	0.0073	MDL	0.103	PQL	mg/Kg	U	B

Sample ID: SL-037-SA6-SB-9.0-10.0 *Collected:* 10/4/2011 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	0.0107	J	0.0077	MDL	0.109	PQL	mg/Kg	U	B

Sample ID: SL-191-SA6-SB-0.0-1.0 *Collected:* 10/4/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0347	J	0.0069	MDL	0.0986	PQL	mg/Kg	U	B

Method Category: SVOA

Method: 1625C Matrix: AQ

Sample ID: EB-SA6-SB-100411 *Collected:* 10/4/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	2.24		0.478	MDL	0.955	PQL	ng/L	J	S

Method Category: SVOA

Method: 8015M Matrix: SO

Sample ID: SL-037-SA6-SB-9.0-10.0 *Collected:* 10/4/2011 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 (C15-C20)	0.55	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-206-SA6-SB-4.0-5.0 *Collected:* 10/4/2011 3:00:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.76	J	0.42	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

Data Qualifier Summary

Lab Reporting Batch ID: DE261 Laboratory: LL

EDD Filename: DE261_v1. eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-225-SA6-SB-3.0-4.0 *Collected:* 10/4/2011 10:00:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	1.0	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

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

Sample ID: SL-037-SA6-SB-4.0-5.0 *Collected:* 10/4/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	19	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-191-SA6-SB-0.0-1.0 *Collected:* 10/4/2011 3:15:00 *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	190	J	17	MDL	330	PQL	ug/Kg	J	Z

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

Sample ID: SL-037-SA6-SB-4.0-5.0 *Collected:* 10/4/2011 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
CHRYSENE	0.41	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.77	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-191-SA6-SB-0.0-1.0 *Collected:* 10/4/2011 3:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.42	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	0.74	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.6	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.78	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE261 **Laboratory: LL**

EDD Filename: DE261_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DE261 **Laboratory: LL**

EDD Filename: DE261_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

Data Qualifier Summary

Lab Reporting Batch ID: DE261 **Laboratory: LL**

EDD Filename: DE261_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE261

Method Blank Outlier Report

Lab Reporting Batch ID: DE261 **Laboratory: LL**

EDD Filename: DE261_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27908DB222239	10/16/2011 10:39:00 PM	BORON	0.360 mg/Kg	SL-007-SA6-SB-1.0-2.0
		CALCIUM	10.1 mg/Kg	SL-037-SA6-SB-4.0-5.0
		PHOSPHORUS	1.26 mg/Kg	SL-037-SA6-SB-9.0-10.0
		STRONTIUM	0.0420 mg/Kg	SL-191-SA6-SB-0.0-1.0
		TIN	1.39 mg/Kg	SL-206-SA6-SB-4.0-5.0
				SL-225-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-007-SA6-SB-1.0-2.0(RES)	BORON	1.24 mg/Kg	1.24U mg/Kg
SL-007-SA6-SB-1.0-2.0(RES)	TIN	2.96 mg/Kg	2.96U mg/Kg
SL-037-SA6-SB-4.0-5.0(RES)	TIN	2.61 mg/Kg	2.61U mg/Kg
SL-037-SA6-SB-9.0-10.0(RES)	BORON	1.45 mg/Kg	1.45U mg/Kg
SL-037-SA6-SB-9.0-10.0(RES)	TIN	2.99 mg/Kg	2.99U mg/Kg
SL-191-SA6-SB-0.0-1.0(RES)	TIN	2.60 mg/Kg	2.60U mg/Kg
SL-206-SA6-SB-4.0-5.0(RES)	BORON	0.558 mg/Kg	0.558U mg/Kg
SL-206-SA6-SB-4.0-5.0(RES)	TIN	3.01 mg/Kg	3.01U mg/Kg
SL-225-SA6-SB-3.0-4.0(RES)	BORON	1.63 mg/Kg	1.63U mg/Kg
SL-225-SA6-SB-3.0-4.0(RES)	TIN	2.90 mg/Kg	2.90U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE261 **Laboratory: LL**

EDD Filename: DE261_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-225-SA6-SB-3.0-4.0MS (SL-225-SA6-SB-3.0-4.0)	FLUORIDE	49	-	80.00-120.00	-	FLUORIDE	J (all detects) UJ (all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE261 Laboratory: LL

EDD Filename: DE261_v1. eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-225-SA6-SB-3.0-4.0DUP (SL-225-SA6-SB-3.0-4.0)	FLUORIDE	42	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE261 Laboratory: LL

EDD Filename: DE261_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
P27926BQ220650A (SL-007-SA6-SB-1.0-2.0 SL -037-SA6-SB-4.0-5.0 SL -037-SA6-SB-9.0-10.0 SL -191-SA6-SB-0.0-1.0 SL -206-SA6-SB-4.0-5.0 SL -225-SA6-SB-3.0-4.0)	ANTIMONY	124	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within Limits

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P5LELCSQ260717 (SL-007-SA6-SB-1.0-2.0 SL -037-SA6-SB-4.0-5.0 SL -037-SA6-SB-9.0-10.0 SL -191-SA6-SB-0.0-1.0 SL -206-SA6-SB-4.0-5.0 SL -225-SA6-SB-3.0-4.0)	2,4,5-TRICHLOROPHENOL	109	-	76.00-107.00	-	2,4,5-TRICHLOROPHENOL	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE261 Laboratory: LL

EDD Filename: DE261_v1. eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-100411	N-Nitrosodimethylamine-d6	381	50.00-150.00	All Target Analytes	J (all detects)

Method: 1625C
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-037-SA6-SB-4.0-5.0	N-Nitrosodimethylamine-d6	153	50.00-150.00	All Target Analytes	No Qual, Diluted Out
SL-037-SA6-SB-9.0-10.0	N-Nitrosodimethylamine-d6	155	50.00-150.00	All Target Analytes	J(all detects)
SL-191-SA6-SB-0.0-1.0	N-Nitrosodimethylamine-d6	169	50.00-150.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE261 **Laboratory:** LL

EDD Filename: DE261_v1. **eQAPP Name:** CDM_SSFL_110509

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-191-SA6-SB-0.0-1.0	FLUORIDE	J	0.90	1.0	PQL	mg/Kg	J (all detects)
SL-225-SA6-SB-3.0-4.0	FLUORIDE	J	0.93	1.1	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA6-SB-1.0-2.0	BORON	J	1.24	5.27	PQL	mg/Kg	J (all detects)
	SODIUM	J	73.3	105	PQL	mg/Kg	
	TIN	J	2.96	10.5	PQL	mg/Kg	
	Zirconium	J	2.77	5.27	PQL	mg/Kg	
SL-037-SA6-SB-4.0-5.0	BORON	J	1.84	5.02	PQL	mg/Kg	J (all detects)
	SODIUM	J	88.5	100	PQL	mg/Kg	
	TIN	J	2.61	10.0	PQL	mg/Kg	
	Zirconium	J	2.72	5.02	PQL	mg/Kg	
SL-037-SA6-SB-9.0-10.0	BORON	J	1.45	5.61	PQL	mg/Kg	J (all detects)
	TIN	J	2.99	11.2	PQL	mg/Kg	
	Zirconium	J	2.95	5.61	PQL	mg/Kg	
SL-191-SA6-SB-0.0-1.0	BORON	J	2.00	4.93	PQL	mg/Kg	J (all detects)
	TIN	J	2.60	9.86	PQL	mg/Kg	
	Zirconium	J	3.01	4.93	PQL	mg/Kg	
SL-206-SA6-SB-4.0-5.0	BORON	J	0.558	5.14	PQL	mg/Kg	J (all detects)
	SODIUM	J	83.7	103	PQL	mg/Kg	
	TIN	J	3.01	10.3	PQL	mg/Kg	
	Zirconium	J	3.05	5.14	PQL	mg/Kg	
SL-225-SA6-SB-3.0-4.0	BORON	J	1.63	5.31	PQL	mg/Kg	J (all detects)
	SODIUM	J	100	106	PQL	mg/Kg	
	TIN	J	2.90	10.6	PQL	mg/Kg	
	Zirconium	J	3.33	5.31	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA6-SB-1.0-2.0	ANTIMONY	J	0.101	0.209	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0585	0.104	PQL	mg/Kg	
	SELENIUM	J	0.0613	0.417	PQL	mg/Kg	
SL-037-SA6-SB-4.0-5.0	ANTIMONY	J	0.103	0.201	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.106	0.402	PQL	mg/Kg	
	SILVER	J	0.0330	0.100	PQL	mg/Kg	
SL-037-SA6-SB-9.0-10.0	ANTIMONY	J	0.144	0.227	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0771	0.453	PQL	mg/Kg	
	SILVER	J	0.0467	0.113	PQL	mg/Kg	
SL-191-SA6-SB-0.0-1.0	SELENIUM	J	0.0608	0.398	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0948	0.0995	PQL	mg/Kg	
SL-206-SA6-SB-4.0-5.0	ANTIMONY	J	0.132	0.207	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0261	0.104	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE261 **Laboratory:** LL

EDD Filename: DE261_v1. **eQAPP Name:** CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-225-SA6-SB-3.0-4.0	ANTIMONY	J	0.157	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.138	0.429	PQL	mg/Kg	
	SILVER	J	0.0489	0.107	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.41	1.1	PQL	mg/Kg	J (all detects)
SL-037-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.27	1.2	PQL	mg/Kg	J (all detects)
SL-225-SA6-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.21	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA6-SB-1.0-2.0	MERCURY	J	0.0112	0.102	PQL	mg/Kg	J (all detects)
SL-037-SA6-SB-4.0-5.0	MERCURY	J	0.0105	0.103	PQL	mg/Kg	J (all detects)
SL-037-SA6-SB-9.0-10.0	MERCURY	J	0.0107	0.109	PQL	mg/Kg	J (all detects)
SL-191-SA6-SB-0.0-1.0	MERCURY	J	0.0347	0.0986	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA6-SB-9.0-10.0	EFH (C15-C20)	J	0.55	1.4	PQL	mg/Kg	J (all detects)
SL-206-SA6-SB-4.0-5.0	EFH (C15-C20)	J	0.76	1.3	PQL	mg/Kg	J (all detects)
SL-225-SA6-SB-3.0-4.0	EFH (C21-C30)	J	1.0	1.3	PQL	mg/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	340	PQL	ug/Kg	J (all detects)
SL-191-SA6-SB-0.0-1.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	190	330	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE261 **Laboratory: LL**

EDD Filename: DE261_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA6-SB-4.0-5.0	CHRYSENE	J	0.41	1.7	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	0.77	1.7	PQL	ug/Kg	
SL-191-SA6-SB-0.0-1.0	ACENAPHTHYLENE	J	0.42	1.7	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.74	1.7	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.6	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.78	1.7	PQL	ug/Kg	

LDC #: 26864E4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/4/12
SDG #: DE261 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
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	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N SW	102 %R
VII.	Duplicate Sample Analysis	N A	
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Co, Cu, Pb, Ni, Zn J/UJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

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

Validated Samples: Soil

1	SL-007-SA6-SB-1.0-2.0	11		21		31	
2	SL-037-SA6-SB-4.0-5.0	12		22		32	
3	SL-037-SA6-SB-9.0-10.0	13		23		33	
4	SL-191-SA6-SB-0.0-1.0	14		24		34	
5	SL-206-SA6-SB-4.0-5.0	15		25		35	
6	SL-225-SA6-SB-3.0-4.0	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 26864E4

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: Sb:200X, Hg: 167X
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	4	5	6						
Sb			0.30	0.30	0.10	0.10	0.14	0.26	0.13	0.16						
Hg			0.042	0.035	0.011	0.011	0.011	0.035								

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.

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE262
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6430028BKG Matrix Spike Lab Sample ID: 6430029MS Matrix Spike Duplicate Lab Sample ID: 6430030MSD
% Solids for Sample: 91.7
Batch Id(s): P29208B, P27926B, P27908D, P27911B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		23997.5577		28040.6932		27143.3074		213.8260	215.9431	MG/KG	1891		1457		3		75	20	P
Antimony	121	0.2690		0.8248		0.8791		1.2705	1.2957	MG/KG	44	N	47	N	6		75 - 125	20	MS
Arsenic	75	7.2145		9.1074		9.8600		2.1175	2.1594	MG/KG	89		123		8		75 - 125	20	MS
Barium	137	146.7488		150.8931		157.8544		10.5875	10.7972	MG/KG	39		103		5		75	20	MS
Beryllium	9	1.0514		1.8761		1.9951		0.8470	0.8638	MG/KG	97		109		6		75 - 125	20	MS
Boron		2.9326	B	214.2987		209.0858		215.9431	215.9431	MG/KG	98		95		2		84 - 115	20	P
Cadmium	111	0.0910	B	1.3717		1.4742		1.0588	1.0797	MG/KG	121		128	N	7		75 - 125	20	MS
Calcium		2316.4047		2900.4168		2900.5204		431.8862	431.8862	MG/KG	135		135		0		75	20	P
Chromium	52	29.3797		39.1102		40.5109		10.5875	10.7972	MG/KG	92		103		4		75 - 125	20	MS
Cobalt	59	9.3827		73.7102		77.8259		52.9375	53.9858	MG/KG	122		127	N	5		75 - 125	20	MS
Copper	63	11.5060		23.9913		25.0926		10.5875	10.7972	MG/KG	118		126	N	4		75 - 125	20	MS
Iron		25723.3175		26754.2669		25160.2827		106.9130	107.9715	MG/KG	964		-521		6		75	20	P
Lead	208	8.0270		11.3922		12.0820		3.1763	3.2391	MG/KG	106		125		6		75 - 125	20	MS
Lithium		27.8434		139.1095		138.2079		107.9715	107.9715	MG/KG	103		102		1		82 - 114	20	P
Magnesium		5855.5071		6416.2967		6034.2551		213.8260	215.9431	MG/KG	262		83		6		75	20	P
Manganese		353.2298		377.9997		380.1851		53.9858	53.9858	MG/KG	46		50		1			20	P
Mercury		0.0152	B	0.1798		0.1757		0.1762	0.1766	MG/KG	93		91		2		65 - 135	20	CV
Molybdenum	98	1.0356		14.1216		14.5567		10.5875	10.7972	MG/KG	124		125		3		75 - 125	20	MS
Nickel	60	19.6656		31.0002		32.9961		10.5875	10.7972	MG/KG	107		123		6		75 - 125	20	MS
Phosphorus		183.7503		294.3196		283.8734		107.9715	107.9715	MG/KG	102		93		4		75 - 125	20	P
Potassium		2083.5514		3441.9038		3488.5043		1079.7154	1079.7154	MG/KG	126	N	130	N	1		75 - 125	20	P
Selenium	78	0.0908	B	2.2530		2.5244		2.1175	2.1594	MG/KG	102		113		11		75 - 125	20	MS
Silver	107	0.1293		13.2068		14.0298		10.5875	10.7972	MG/KG	124		129	N	6		75 - 125	20	MS
Sodium		130.0458		1163.4387		1154.3475		1079.7154	1079.7154	MG/KG	96		95		1		75 - 125	20	P
Strontium		21.7493		126.2673		124.3767		107.9715	107.9715	MG/KG	97		95		2		75 - 115	20	P
Thallium	203	0.3795		0.8745		0.9435		0.4235	0.4319	MG/KG	117		131	N	8		75 - 125	20	MS
Tin		2.9455	B	405.7624		398.5165		431.8862	431.8862	MG/KG	93		92		2		80 - 110	20	P
Titanium		1393.0646		1663.9613		1686.1991		107.9715	107.9715	MG/KG	251		271		1		75	20	P
Vanadium	51	59.0801		67.1671		70.5918		10.5875	10.7972	MG/KG	76		107		5			20	MS
Zinc	66	75.4806		81.8626		85.3623		10.5875	10.7972	MG/KG	60		92		4		75	20	MS
Zirconium		3.8638	B	110.3825		109.8913		107.9715	107.9715	MG/KG	99		98		0		81 - 110	20	P

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:
N = Matrix Spike OOS, * = Duplicate OOS

SAMPLE DELIVERY GROUP

DE262

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
05-Oct-2011	TB-100511	6430037	TB	3520C	1625C	III
05-Oct-2011	TB-100511	6430038	TB	3546	1625C	III
05-Oct-2011	TB-100511	6430039	TB	5030B	8015M	III
05-Oct-2011	SL-301-SA6-SB-4.0-5.0	6430034	N	3050B	6010B	III
05-Oct-2011	SL-301-SA6-SB-4.0-5.0	6430034	N	3050B	6020	III
05-Oct-2011	SL-301-SA6-SB-4.0-5.0	6430034	N	3060A	7199	III
05-Oct-2011	SL-301-SA6-SB-4.0-5.0	6430034	N	3550B	8082	III
05-Oct-2011	SL-301-SA6-SB-4.0-5.0	6430034	N	3550B	8270C	III
05-Oct-2011	SL-301-SA6-SB-4.0-5.0	6430034	N	3550B	8270C SIM	III
05-Oct-2011	SL-301-SA6-SB-4.0-5.0	6430034	N	METHOD	300.0	III
05-Oct-2011	SL-301-SA6-SB-4.0-5.0	6430034	N	METHOD	314.0	III
05-Oct-2011	SL-301-SA6-SB-4.0-5.0	6430034	N	METHOD	7471A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	3050B	6010B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	3050B	6020	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	3060A	7199	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	3546	1625C	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	3550B	8015B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	3550B	8015M	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	3550B	8082	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	3550B	8270C	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	3550B	8270C SIM	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	5035	8015M	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	8330	8330A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	METHOD	300.0	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	METHOD	314.0	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	METHOD	8015B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	METHOD	8015M	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	METHOD	8315A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	METHOD	9012B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	3050B	6010B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	3050B	6020	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	3060A	7199	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	3546	1625C	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	3550B	8015B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	3550B	8015M	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	3550B	8082	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	3550B	8270C	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	3550B	8270C SIM	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	5035	8015M	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	8330	8330A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	METHOD	300.0	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	METHOD	314.0	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	METHOD	7471A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	METHOD	8015B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	METHOD	8015M	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	METHOD	8315A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	METHOD	9012B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	3050B	6010B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	3050B	6020	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	3546	1625C	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	3550B	8015B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	3550B	8015M	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	3550B	8082	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	3550B	8270C	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	3550B	8270C SIM	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	5035	8015M	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	8330	8330A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	METHOD	7471A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	METHOD	8015B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	METHOD	8015M	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	METHOD	8315A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0DUP	6430031	DUP	3050B	6010B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0DUP	6430031	DUP	3050B	6020	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0DUP	6430031	DUP	3060A	7199	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0DUP	6430031	DUP	METHOD	300.0	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0DUP	6430031	DUP	METHOD	314.0	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0DUP	6430031	DUP	METHOD	7471A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0DUP	6430031	DUP	METHOD	9012B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLMS	6430032	N	3550B	8015B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLMS	6430032	N	3550B	8015M	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLMS	6430032	N	3550B	8082	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLMS	6430032	N	8330	8330A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLMS	6430032	N	METHOD	8015B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLMS	6430032	N	METHOD	8315A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLLC	6430033	N	3550B	8015B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLLC	6430033	N	3550B	8015M	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLLC	6430033	N	3550B	8082	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLLC	6430033	N	8330	8330A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLLC	6430033	N	METHOD	8015B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLLC	6430033	N	METHOD	8315A	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	3050B	6010B	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	3050B	6020	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	3060A	7199	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	3546	1625C	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	3550B	8015B	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	3550B	8015M	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	3550B	8082	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	3550B	8270C	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	3550B	8270C SIM	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	5035	8015M	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	8330	8330A	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	METHOD	300.0	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	METHOD	314.0	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	METHOD	7471A	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	METHOD	8015B	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	METHOD	8015M	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	METHOD	8315A	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	METHOD	9012B	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	3005A	6010B	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	3020A	6020	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	3510C	8015B	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	3510C	8015M	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	3510C	8082	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	3510C	8270C	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	3510C	8270C SIM	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	3520C	1625C	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	5030B	8015M	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	5030B	8260B	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	5030B	8260B SIM	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	8330	8330A	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	Gen Prep	300.0	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	Gen Prep	314.0	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	Gen Prep	7199	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	Gen Prep	8015B	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	Gen Prep	8015M	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	Gen Prep	9012B	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	METHOD	7470A	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	METHOD	8315A	III
05-Oct-2011	EB-SA6-SB-100511MSD	P430040M321723A	MSD	Gen Prep	8015M	III
05-Oct-2011	EB-SA6-SB-100511MS	P430040R321710A	MS	Gen Prep	8015M	III
05-Oct-2011	EB-SA6-SB-100511	6430036	EB	3520C	1625C	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE262 Laboratory: LL

EDD Filename: DE262_v1. eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM
Method: 300.0 **Matrix:** SO

Sample ID: DUP16-SA6-QC-100511 *Collected:* 10/5/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.7		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-301-SA6-SB-4.0-5.0 *Collected:* 10/5/2011 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	3.4		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-319-SA6-SB-4.0-5.0 *Collected:* 10/5/2011 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
FLUORIDE	1.5		0.86	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.3	J	0.86	MDL	1.6	PQL	mg/Kg	J	Z

Method Category: METALS
Method: 6010B **Matrix:** AQ

Sample ID: EB-SA6-SB-100511 *Collected:* 10/5/2011 2:00:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
STRONTIUM	0.00030	J	0.00022	MDL	0.0050	PQL	mg/L	U	B

Method Category: METALS
Method: 6010B **Matrix:** SO

Sample ID: DUP16-SA6-QC-100511 *Collected:* 10/5/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.79	J	0.382	MDL	5.31	PQL	mg/Kg	U	B
POTASSIUM	2180		12.0	MDL	53.1	PQL	mg/Kg	J	Q
TIN	3.06	J	0.340	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	4.45	J	0.488	MDL	5.31	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: DE262 **Laboratory: LL**

EDD Filename: DE262_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-301-SA6-SB-4.0-5.0 *Collected:* 10/5/2011 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	1.55	J	0.378	MDL	5.25	PQL	mg/Kg	U	B
POTASSIUM	1500		11.9	MDL	52.5	PQL	mg/Kg	J	Q
TIN	2.85	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	3.93	J	0.483	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: SL-319-SA6-SB-4.0-5.0 *Collected:* 10/5/2011 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
BORON	2.93	J	0.385	MDL	5.35	PQL	mg/Kg	J	Z
POTASSIUM	2080		12.1	MDL	53.5	PQL	mg/Kg	J	Q
TIN	2.95	J	0.342	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	3.86	J	0.492	MDL	5.35	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP16-SA6-QC-100511 *Collected:* 10/5/2011 10:35:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0686	J	0.0621	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: DUP16-SA6-QC-100511 *Collected:* 10/5/2011 10:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	112		0.114	MDL	0.429	PQL	mg/Kg	J	A

Sample ID: DUP16-SA6-QC-100511 *Collected:* 10/5/2011 10:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.180	J	0.0793	MDL	0.214	PQL	mg/Kg	UJ	Q, B
CADMIUM	0.0778	J	0.0471	MDL	0.107	PQL	mg/Kg	J	Z, Q
COBALT	8.31		0.0214	MDL	0.107	PQL	mg/Kg	J	Q, A
COPPER	9.33		0.0857	MDL	0.429	PQL	mg/Kg	J	Q, A
LEAD	6.38		0.0109	MDL	0.214	PQL	mg/Kg	J	A
NICKEL	14.8		0.107	MDL	0.429	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: DE262 **Laboratory:** LL

EDD Filename: DE262_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP16-SA6-QC-100511 ***Collected:*** 10/5/2011 10:35:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.117		0.0152	MDL	0.107	PQL	mg/Kg	J	Q
THALLIUM	0.312		0.0321	MDL	0.107	PQL	mg/Kg	J	Q
ZINC	67.8		0.600	MDL	3.21	PQL	mg/Kg	J	A

Sample ID: SL-301-SA6-SB-4.0-5.0 ***Collected:*** 10/5/2011 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	0.106	J	0.0621	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-301-SA6-SB-4.0-5.0 ***Collected:*** 10/5/2011 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	112		0.114	MDL	0.429	PQL	mg/Kg	J	A

Sample ID: SL-301-SA6-SB-4.0-5.0 ***Collected:*** 10/5/2011 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	0.173	J	0.0793	MDL	0.214	PQL	mg/Kg	UJ	Q, B
CADMIUM	0.0709	J	0.0471	MDL	0.107	PQL	mg/Kg	J	Z, Q
COBALT	10.5		0.0214	MDL	0.107	PQL	mg/Kg	J	Q, A
COPPER	8.09		0.0857	MDL	0.429	PQL	mg/Kg	J	Q, A
LEAD	7.65		0.0109	MDL	0.214	PQL	mg/Kg	J	A
NICKEL	16.8		0.107	MDL	0.429	PQL	mg/Kg	J	A
SILVER	0.0739	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.284		0.0321	MDL	0.107	PQL	mg/Kg	J	Q
ZINC	58.3		0.600	MDL	3.21	PQL	mg/Kg	J	A

Sample ID: SL-319-SA6-SB-4.0-5.0 ***Collected:*** 10/5/2011 10:15:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0908	J	0.0620	MDL	0.428	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: DE262 **Laboratory: LL**

EDD Filename: DE262_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-319-SA6-SB-4.0-5.0 *Collected:* 10/5/2011 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
BARIUM	147		0.113	MDL	0.428	PQL	mg/Kg	J	A

Sample ID: SL-319-SA6-SB-4.0-5.0 *Collected:* 10/5/2011 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	0.269		0.0791	MDL	0.214	PQL	mg/Kg	UJ	Q, B
CADMIUM	0.0910	J	0.0470	MDL	0.107	PQL	mg/Kg	J	Z, Q
COBALT	9.38		0.0214	MDL	0.107	PQL	mg/Kg	J	Q, A
COPPER	11.5		0.0855	MDL	0.428	PQL	mg/Kg	J	Q, A
LEAD	8.03		0.0109	MDL	0.214	PQL	mg/Kg	J	A
NICKEL	19.7		0.107	MDL	0.428	PQL	mg/Kg	J	A
SILVER	0.129		0.0152	MDL	0.107	PQL	mg/Kg	J	Q
THALLIUM	0.380		0.0321	MDL	0.107	PQL	mg/Kg	J	Q
ZINC	75.5		0.599	MDL	3.21	PQL	mg/Kg	J	A

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: DUP16-SA6-QC-100511 *Collected:* 10/5/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z, FD

Sample ID: SL-301-SA6-SB-4.0-5.0 *Collected:* 10/5/2011 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	0.24	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-319-SA6-SB-4.0-5.0 *Collected:* 10/5/2011 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
HEXAVALENT CHROMIUM	0.22	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z, FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE262 **Laboratory: LL**

EDD Filename: DE262_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS
Method: 7470A **Matrix: AQ**

Sample ID: EB-SA6-SB-100511 *Collected:* 10/5/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.000056	J	0.000026	MDL	0.00020	PQL	mg/L	U	B, B

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

Sample ID: DUP16-SA6-QC-100511 *Collected:* 10/5/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0102	J	0.0074	MDL	0.106	PQL	mg/Kg	U	B, F

Sample ID: SL-301-SA6-SB-4.0-5.0 *Collected:* 10/5/2011 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
MERCURY	0.0198	J	0.0075	MDL	0.106	PQL	mg/Kg	U	B, F

Sample ID: SL-319-SA6-SB-4.0-5.0 *Collected:* 10/5/2011 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	0.0152	J	0.0073	MDL	0.104	PQL	mg/Kg	U	B, F

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

Sample ID: EB-SA6-SB-100511 *Collected:* 10/5/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	2.69		0.491	MDL	0.982	PQL	ng/L	J	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE262 **Laboratory: LL**

EDD Filename: DE262_v1. **eQAPP Name: CDM_SSFL_110509**

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

Sample ID: EB-SA6-SB-100511 *Collected:* 10/5/2011 2:00:00 *Analysis Type:* REA *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	Q
Propylene glycol	20	U	20	MDL	200	PQL	mg/L	UJ	Q

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

Sample ID: DUP16-SA6-QC-100511 *Collected:* 10/5/2011 10:35:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	11		0.44	MDL	1.3	PQL	mg/Kg	J	FD

Sample ID: SL-319-SA6-SB-4.0-5.0 *Collected:* 10/5/2011 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
EFH (C21-C30)	1.9		0.44	MDL	1.3	PQL	mg/Kg	J	Q
EFH (C30-C40)	5.9		0.44	MDL	1.3	PQL	mg/Kg	J	Q, FD

Sample ID: SL-319-SA6-SB-4.0-5.0 *Collected:* 10/5/2011 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
DIETHYLENE GLYCOL	5.5	U	5.5	MDL	11	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.5	U	5.5	MDL	11	PQL	mg/Kg	UJ	Q
Propylene glycol	5.5	U	5.5	MDL	11	PQL	mg/Kg	UJ	Q

Method Category: SVOA
Method: 8082 **Matrix: AQ**

Sample ID: EB-SA6-SB-100511 *Collected:* 10/5/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.099	U	0.099	MDL	0.50	PQL	ug/L	UJ	E
AROCLOR 1221	0.099	U	0.099	MDL	0.50	PQL	ug/L	UJ	E
AROCLOR 1232	0.20	U	0.20	MDL	0.50	PQL	ug/L	UJ	E
AROCLOR 1242	0.099	U	0.099	MDL	0.50	PQL	ug/L	UJ	E
AROCLOR 1248	0.099	U	0.099	MDL	0.50	PQL	ug/L	UJ	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE262 **Laboratory: LL**

EDD Filename: DE262_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: AQ**

Sample ID: EB-SA6-SB-100511 *Collected:* 10/5/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.099	U	0.099	MDL	0.50	PQL	ug/L	UJ	E
AROCLOR 1260	0.15	U	0.15	MDL	0.50	PQL	ug/L	UJ	E
Aroclor 1262	0.20	U	0.20	MDL	0.50	PQL	ug/L	UJ	E
Aroclor 1268	0.16	U	0.16	MDL	0.50	PQL	ug/L	UJ	E

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: DUP16-SA6-QC-100511 *Collected:* 10/5/2011 10:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	FD
AROCLOR 1260	0.43	U	0.43	MDL	1.9	PQL	ug/Kg	UJ	FD

Sample ID: SL-319-SA6-SB-4.0-5.0 *Collected:* 10/5/2011 10:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.55	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z, FD
AROCLOR 1260	1.0	J	0.43	MDL	1.9	PQL	ug/Kg	J	Z, FD

Sample ID: SL-319-SA6-SB-4.0-5.0RLLCS *Collected:* 10/5/2011 10:15:00 *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 1016	2.0		0.33	MDL	1.7	PQL	ug/Kg	J	S
AROCLOR 1260	2.1		0.39	MDL	1.7	PQL	ug/Kg	J	S

Sample ID: SL-319-SA6-SB-4.0-5.0RLMS *Collected:* 10/5/2011 10:15:00 *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 1016	2.1		0.36	MDL	1.8	PQL	ug/Kg	J	S
AROCLOR 1260	2.4		0.42	MDL	1.8	PQL	ug/Kg	J	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE262 **Laboratory: LL**

EDD Filename: DE262_v1. **eQAPP Name: CDM_SSFL_110509**

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

Sample ID: SL-319-SA6-SB-4.0-5.0 *Collected:* 10/5/2011 10:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1300	U	1300	MDL	3600	PQL	ug/Kg	R	Q
BIS(2-ETHYLHEXYL)PHTHALATE	28	J	18	MDL	360	PQL	ug/Kg	J	Z

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

Sample ID: EB-SA6-SB-100511 *Collected:* 10/5/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.11	J	0.048	MDL	0.95	PQL	ug/L	J	Z
Diethylphthalate	0.26	J	0.048	MDL	0.95	PQL	ug/L	J	Z
Di-n-butylphthalate	0.70	J	0.048	MDL	0.95	PQL	ug/L	J	Z
NAPHTHALENE	0.034	J	0.029	MDL	0.048	PQL	ug/L	J	Z

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

Sample ID: DUP16-SA6-QC-100511 *Collected:* 10/5/2011 10:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(G,H,I)PERYLENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(K)FLUORANTHENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	FD
CHRYSENE	0.36	U	0.36	MDL	1.8	PQL	ug/Kg	UJ	FD
FLUORANTHENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	FD
PHENANTHRENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	FD
PYRENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	FD

Sample ID: SL-301-SA6-SB-4.0-5.0 *Collected:* 10/5/2011 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(K)FLUORANTHENE	1.7	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.69	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	0.88	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE262 **Laboratory: LL**

EDD Filename: DE262_v1. **eQAPP Name: CDM_SSFL_110509**

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

Sample ID: SL-319-SA6-SB-4.0-5.0 *Collected:* 10/5/2011 10:15:00 *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	1.1	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(G,H,I)PERYLENE	0.74	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(K)FLUORANTHENE	0.92	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z, FD
CHRYSENE	1.4	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	2.6		0.72	MDL	1.8	PQL	ug/Kg	J	FD
PHENANTHRENE	0.96	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z, FD
PYRENE	1.9		0.72	MDL	1.8	PQL	ug/Kg	J	FD

Method Category: SVOA
Method: 8330A **Matrix:** SO

Sample ID: SL-319-SA6-SB-4.0-5.0 *Collected:* 10/5/2011 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
Nitroglycerin	870	U	870	MDL	2600	PQL	ug/Kg	UJ	Q
PETN	870	U	870	MDL	2600	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE262 **Laboratory: LL**

EDD Filename: DE262_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DE262 **Laboratory: LL**

EDD Filename: DE262_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

Data Qualifier Summary

Lab Reporting Batch ID: DE262 **Laboratory: LL**

EDD Filename: DE262_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE262

Method Blank Outlier Report

Lab Reporting Batch ID: DE262 **Laboratory: LL**

EDD Filename: DE262_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28448IB220323	10/14/2011 3:23:00 AM	STRONTIUM	0.00035 mg/L	EB-SA6-SB-100511

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-100511(REA)	STRONTIUM	0.00030 mg/L	0.00030U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27908DB222239	10/16/2011 10:39:00 PM	BORON CALCIUM PHOSPHORUS STRONTIUM TIN	0.360 mg/Kg 10.1 mg/Kg 1.26 mg/Kg 0.0420 mg/Kg 1.39 mg/Kg	DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-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
DUP16-SA6-QC-100511(RES)	BORON	1.79 mg/Kg	1.79U mg/Kg
DUP16-SA6-QC-100511(RES)	TIN	3.06 mg/Kg	3.06U mg/Kg
SL-301-SA6-SB-4.0-5.0(RES)	BORON	1.55 mg/Kg	1.55U mg/Kg
SL-301-SA6-SB-4.0-5.0(RES)	TIN	2.85 mg/Kg	2.85U mg/Kg
SL-319-SA6-SB-4.0-5.0(RES)	TIN	2.95 mg/Kg	2.95U mg/Kg

Method: 7470A
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28313EB221002	10/11/2011 10:02:00 AM	MERCURY	0.000063 mg/L	EB-SA6-SB-100511

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-100511(RES)	MERCURY	0.000056 mg/L	0.000056U mg/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE262 **Laboratory: LL**

EDD Filename: DE262_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
EB-SA6-SB-100511MS EB-SA6-SB-100511MSD (EB-SA6-SB-100511)	ETHYLENE GLYCOL Propylene glycol	74 65	- -	89.00-125.00 91.00-128.00	40 (20.00) 47 (20.00)	ETHYLENE GLYCOL Propylene glycol	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-319-SA6-SB-4.0-5.0MS SL-319-SA6-SB-4.0-5.0MSD (SL-319-SA6-SB-4.0-5.0)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	28 58 61	34 61 -	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)

Method: 8330A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-319-SA6-SB-4.0-5.0MSD (SL-319-SA6-SB-4.0-5.0)	Nitroglycerin PETN	- -	76 79	80.00-120.00 80.00-121.00	- -	Nitroglycerin PETN	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-319-SA6-SB-4.0-5.0MS SL-319-SA6-SB-4.0-5.0MSD (SL-319-SA6-SB-4.0-5.0)	EFH (C21-C30) EFH (C30-C40)	- 171	135 251	49.00-123.00 49.00-123.00	- -	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-319-SA6-SB-4.0-5.0MSD (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	CADMIUM COBALT COPPER SILVER THALLIUM	- - - - -	128 127 126 129 131	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	CADMIUM COBALT COPPER SILVER THALLIUM	J(all detects)
SL-319-SA6-SB-4.0-5.0MS SL-319-SA6-SB-4.0-5.0MSD (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	ANTIMONY ZINC	44 60	47 -	75.00-125.00 75.00-125.00	- -	ANTIMONY ZINC	J(all detects) UJ(all non-detects) Zn, No Qual, >4x

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE262 **Laboratory: LL**

EDD Filename: DE262_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-319-SA6-SB-4.0-5.0MS (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	BARIUM	39	-	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-319-SA6-SB-4.0-5.0MS **SL-319-SA6-SB-4.0-5.0MSD** (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	CALCIUM POTASSIUM TITANIUM	135 126 251	135 130 271	75.00-125.00 75.00-125.00 75.00-125.00	- - -	CALCIUM POTASSIUM TITANIUM	J(all detects) Ca, Ti, No Qual, >4x
SL-319-SA6-SB-4.0-5.0MS **SL-319-SA6-SB-4.0-5.0MSD** (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	MANGANESE	46	50	75.00-125.00	-	MANGANESE	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-319-SA6-SB-4.0-5.0MS **SL-319-SA6-SB-4.0-5.0MSD** (SL-319-SA6-SB-4.0-5.0)	BIS(2-CHLOROETHOXY)METHA ISOPHORONE	105 106	- 106	75.00-104.00 73.00-102.00	- -	BIS(2-CHLOROETHOXY)METH ISOPHORONE	J(all detects)
SL-319-SA6-SB-4.0-5.0MS **SL-319-SA6-SB-4.0-5.0MSD** (SL-319-SA6-SB-4.0-5.0)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(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-319-SA6-SB-4.0-5.0MSD (SL-319-SA6-SB-4.0-5.0)	BIS(2-ETHYLHEXYL)PHTHALAT	-	195	39.00-167.00	44 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE262 **Laboratory: LL**

EDD Filename: DE262_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-319-SA6-SB-4.0-5.0MS (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	FLUORIDE	43	-	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-319-SA6-SB-4.0-5.0MS **SL-319-SA6-SB-4.0-5.0MSD** (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	ALUMINUM MAGNESIUM	1891 262	1457 -	75.00-125.00 75.00-125.00	- -	ALUMINUM MAGNESIUM	No Qual, >4x
SL-319-SA6-SB-4.0-5.0MS **SL-319-SA6-SB-4.0-5.0MSD** (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	IRON	964	-521	75.00-125.00	-	IRON	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE262 **Laboratory: LL**

EDD Filename: DE262_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-319-SA6-SB-4.0-5.0DUP (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	Zirconium	29	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-319-SA6-SB-4.0-5.0DUP (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	ANTIMONY	37	20.00	No Qual, OK by Difference

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-319-SA6-SB-4.0-5.0DUP (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	HEXAVALENT CHROMIUM	200	20.00	No Qual, OK by Difference

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-319-SA6-SB-4.0-5.0DUP (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	MERCURY	35	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE262 **Laboratory: LL**

EDD Filename: DE262_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8082
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12858AY241027A (EB-SA6-SB-100511)	AROCLOR 1016 AROCLOR 1260	- -	- -	51.00-128.00 56.00-135.00	47 (30.00) 54 (30.00)	AROCLOR 1016, 1221, 1232, 1242,1248, 1254, 1260, 1262, 1268	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
P27926BQ220650A (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	ANTIMONY	124	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within Limits

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P5LELCSQ260717 (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	2,4,5-TRICHLOROPHENOL	109	-	76.00-107.00	-	2,4,5-TRICHLOROPHENOL	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE262 **Laboratory: LL**

EDD Filename: DE262_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-100511	N-Nitrosodimethylamine-d6 N-Nitrosodimethylamine-d6	336 323	50.00-150.00 50.00-150.00	All Target Analytes	J (all detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-301-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL	122	45.00-120.00	All Target Analytes	J(all detects)
SL-319-SA6-SB-4.0-5.0RLLCS	DECACHLOROBIPHENYL	128	45.00-120.00	All Target Analytes	J(all detects)
SL-319-SA6-SB-4.0-5.0RLMS	DECACHLOROBIPHENYL	122	45.00-120.00	All Target Analytes	J(all detects)

Method: 8270C SIM
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-301-SA6-SB-4.0-5.0	Terphenyl-d14	150	45.00-135.00	No Affected Compounds	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE262 **Laboratory: LL**

EDD Filename: DE262_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-319-SA6-SB-4.0-5.0	DUP16-SA6-QC-100511			
MOISTURE	8.3	8.5	2		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-319-SA6-SB-4.0-5.0	DUP16-SA6-QC-100511			
FLUORIDE	1.5	1.7	12	50.00	No Qualifiers Applied
Nitrate-NO3	1.3	1.8	32	50.00	

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-319-SA6-SB-4.0-5.0	DUP16-SA6-QC-100511			
ALUMINUM	24000	23100	4	50.00	No Qualifiers Applied
BORON	2.93	1.79	48	50.00	
CALCIUM	2320	2370	2	50.00	
IRON	25700	24800	4	50.00	
LITHIUM	27.8	28.3	2	50.00	
MAGNESIUM	5860	5580	5	50.00	
MANGANESE	353	363	3	50.00	
PHOSPHORUS	184	179	3	50.00	
POTASSIUM	2080	2180	5	50.00	
SODIUM	130	125	4	50.00	
STRONTIUM	21.7	22.8	5	50.00	
TIN	2.95	3.06	4	50.00	
TITANIUM	1390	1450	4	50.00	
Zirconium	3.86	4.45	14	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-319-SA6-SB-4.0-5.0	DUP16-SA6-QC-100511			
ANTIMONY	0.269	0.180	40	50.00	No Qualifiers Applied
ARSENIC	7.21	5.98	19	50.00	
BARIUM	147	112	27	50.00	
BERYLLIUM	1.05	0.749	33	50.00	
CADMIUM	0.0910	0.0778	16	50.00	
CHROMIUM	29.4	23.0	24	50.00	
COBALT	9.38	8.31	12	50.00	
COPPER	11.5	9.33	21	50.00	
LEAD	8.03	6.38	23	50.00	
MOLYBDENUM	1.04	0.798	26	50.00	
NICKEL	19.7	14.8	28	50.00	
SELENIUM	0.0908	0.0686	28	50.00	
SILVER	0.129	0.117	10	50.00	
THALLIUM	0.380	0.312	20	50.00	
VANADIUM	59.1	45.9	25	50.00	
ZINC	75.5	67.8	11	50.00	

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE262 **Laboratory: LL**

EDD Filename: DE262_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg) SL-319-SA6-SB-4.0-5.0	Concentration (mg/Kg) DUP16-SA6-QC-100511	Sample RPD	eQAPP RPD	Flag
HEXAVALENT CHROMIUM	0.22	0.49	76	50.00	J(all detects)

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg) SL-319-SA6-SB-4.0-5.0	Concentration (mg/Kg) DUP16-SA6-QC-100511	Sample RPD	eQAPP RPD	Flag
MERCURY	0.0152	0.0102	39	50.00	No Qualifiers Applied

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg) SL-319-SA6-SB-4.0-5.0	Concentration (mg/Kg) DUP16-SA6-QC-100511	Sample RPD	eQAPP RPD	Flag
EFH (C21-C30)	1.9	2.9	42	50.00	No Qualifiers Applied
EFH (C30-C40)	5.9	11	60	50.00	J(all detects)

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg) SL-319-SA6-SB-4.0-5.0	Concentration (ug/Kg) DUP16-SA6-QC-100511	Sample RPD	eQAPP RPD	Flag
AROCLOR 1254	0.55	1.9 U	200	50.00	J(all detects)
AROCLOR 1260	1.0	1.9 U	200	50.00	UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg) SL-319-SA6-SB-4.0-5.0	Concentration (ug/Kg) DUP16-SA6-QC-100511	Sample RPD	eQAPP RPD	Flag
BENZO(B)FLUORANTHENE	1.1	1.8 U	200	50.00	J(all detects) UJ(all non-detects)
BENZO(G,H,I)PERYLENE	0.74	1.8 U	200	50.00	
BENZO(K)FLUORANTHENE	0.92	1.8 U	200	50.00	
CHRYSENE	1.4	1.8 U	200	50.00	
FLUORANTHENE	2.6	1.8 U	200	50.00	
PHENANTHRENE	0.96	1.8 U	200	50.00	
PYRENE	1.9	1.8 U	200	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit) SL-319-SA6-SB-4.0-5.0	Concentration (pH unit) DUP16-SA6-QC-100511	Sample RPD	eQAPP RPD	Flag
PH	6.47	6.38	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE262 **Laboratory: LL**

EDD Filename: DE262_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-100511	STRONTIUM	J	0.00030	0.0050	PQL	mg/L	J (all detects)

Method: 7470A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-100511	MERCURY	J	0.000056	0.00020	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-100511	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.11	0.95	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.26	0.95	PQL	ug/L	
	Di-n-butylphthalate	J	0.70	0.95	PQL	ug/L	
	NAPHTHALENE	J	0.034	0.048	PQL	ug/L	

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-319-SA6-SB-4.0-5.0	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
DUP16-SA6-QC-100511	BORON	J	1.79	5.31	PQL	mg/Kg	J (all detects)
	TIN	J	3.06	10.6	PQL	mg/Kg	
	Zirconium	J	4.45	5.31	PQL	mg/Kg	
SL-301-SA6-SB-4.0-5.0	BORON	J	1.55	5.25	PQL	mg/Kg	J (all detects)
	TIN	J	2.85	10.5	PQL	mg/Kg	
	Zirconium	J	3.93	5.25	PQL	mg/Kg	
SL-319-SA6-SB-4.0-5.0	BORON	J	2.93	5.35	PQL	mg/Kg	J (all detects)
	TIN	J	2.95	10.7	PQL	mg/Kg	
	Zirconium	J	3.86	5.35	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE262 **Laboratory: LL**

EDD Filename: DE262_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP16-SA6-QC-100511	ANTIMONY	J	0.180	0.214	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0778	0.107	PQL	mg/Kg	
	SELENIUM	J	0.0686	0.429	PQL	mg/Kg	
SL-301-SA6-SB-4.0-5.0	ANTIMONY	J	0.173	0.214	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0709	0.107	PQL	mg/Kg	
	SELENIUM	J	0.106	0.429	PQL	mg/Kg	
	SILVER	J	0.0739	0.107	PQL	mg/Kg	
SL-319-SA6-SB-4.0-5.0	CADMIUM	J	0.0910	0.107	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0908	0.428	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP16-SA6-QC-100511	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)
SL-301-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.24	1.0	PQL	mg/Kg	J (all detects)
SL-319-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.22	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP16-SA6-QC-100511	MERCURY	J	0.0102	0.106	PQL	mg/Kg	J (all detects)
SL-301-SA6-SB-4.0-5.0	MERCURY	J	0.0198	0.106	PQL	mg/Kg	J (all detects)
SL-319-SA6-SB-4.0-5.0	MERCURY	J	0.0152	0.104	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-319-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.55	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.0	1.9	PQL	ug/Kg	

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-319-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	28	360	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE262 **Laboratory: LL**

EDD Filename: DE262_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-301-SA6-SB-4.0-5.0	BENZO(K)FLUORANTHENE	J	1.7	1.8	PQL	ug/Kg	
	CHRYSENE	J	0.69	1.8	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	0.88	1.8	PQL	ug/Kg	
SL-319-SA6-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.74	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.92	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	1.4	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.96	1.8	PQL	ug/Kg	

LDC #: 26923A4 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/6/12

SDG #: DE262 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: W

2nd Reviewer: C

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	W	
III.	Calibration	W	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Mn, Ti, Zn >4x
VII.	Duplicate Sample Analysis	N A	Sb, Hg, Zr <5x
VIII.	Laboratory Control Samples (LCS)	N	
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Co, Cu, Pb, Ni, Zn, J/UJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	TB=1

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-319-SA6-SB-4.0-5.0	11		21		31	
2	SL-301-SA6-SB-4.0-5.0	12		22		32	
3	DUP16-SA6-QC-100511	13		23		33	
4	EB-SA6-SB-100511	14		24		34	
5	SL-319-SA6-SB-4.0-5.0MS	15		25		35	
6	SL-319-SA6-SB-4.0-5.0MSD	16		26		36	
7	SL-319-SA6-SB-4.0-5.0DUP	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 26864A4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 100X
Sample Concentration units, unless otherwise noted: ug/L
Associated Samples: All AQ Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	4									
Hg			0.063	0.315	0.056									

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	1	2	3									
Sb			0.30	0.30	0.27	0.17	0.18									
Hg			0.042	0.035	0.015	0.020	0.010									

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U". Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 26923A4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer:
2nd Reviewer: A

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: 10/05/11 Soil factor applied 100X, Hg:167X

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

Analyte	Blank ID	Sample Identification												
	4	Action Level	1	2	3									
Hg	0.056	0.04676	0.015	0.020	0.010									
Sr	0.30	0.15												

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".

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE262
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6430028BKG Matrix Spike Lab Sample ID: 6430029MS Matrix Spike Duplicate Lab Sample ID: 6430030MSD
% Solids for Sample: 91.7
Batch Id(s): P29208B, P27926B, P27908D, P27911B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		23997.5577		28040.6932		27143.3074		213.8260	215.9431	MG/KG	1891		1457		3		74X	20	P
Antimony	121	0.2690		0.8248		0.8791		1.2705	1.2957	MG/KG	44	N	47	N	6		75 - 125	20	MS
Arsenic	75	7.2145		9.1074		9.8600		2.1175	2.1594	MG/KG	89		123		8		75 - 125	20	MS
Barium	137	146.7488		150.8931		157.8544		10.5875	10.7972	MG/KG	39		103		5		74X	20	MS
Beryllium	9	1.0514		1.8761		1.9951		0.8470	0.8638	MG/KG	97		109		6		75 - 125	20	MS
Boron		2.9326	B	214.2987		209.0858		215.9431	215.9431	MG/KG	98		95		2		84 - 115	20	P
Cadmium	111	0.0910	B	1.3717		1.4742		1.0588	1.0797	MG/KG	121		128	N	7		75 - 125	20	MS
Calcium		2316.4047		2900.4168		2900.5204		431.8862	431.8862	MG/KG	135		135		0		74X	20	P
Chromium	52	29.3797		39.1102		40.5109		10.5875	10.7972	MG/KG	92		103		4		75 - 125	20	MS
Cobalt	59	9.3827		73.7102		77.8259		52.9375	53.9858	MG/KG	122		127	N	5		75 - 125	20	MS
Copper	63	11.5060		23.9913		25.0926		10.5875	10.7972	MG/KG	118		126	N	4		75 - 125	20	MS
Iron		25723.3175		26754.2669		25160.2827		106.9130	107.9715	MG/KG	964		-521		6		74X	20	P
Lead	208	8.0270		11.3922		12.0820		3.1763	3.2391	MG/KG	106		125		6		75 - 125	20	MS
Lithium		27.8434		139.1095		138.2079		107.9715	107.9715	MG/KG	103		102		1		82 - 114	20	P
Magnesium		5855.5071		6416.2967		6034.2551		213.8260	215.9431	MG/KG	262		83		6		74↓	20	P
Manganese		353.2298		377.9997		380.1851		53.9858	53.9858	MG/KG	46		50		1			20	P
Mercury		0.0152	B	0.1798		0.1757		0.1762	0.1766	MG/KG	93		91		2		65 - 135	20	CV
Molybdenum	98	1.0356		14.1216		14.5567		10.5875	10.7972	MG/KG	124		125		3		75 - 125	20	MS
Nickel	60	19.6656		31.0002		32.9961		10.5875	10.7972	MG/KG	107		123		6		75 - 125	20	MS
Phosphorus		183.7503		294.3196		283.8734		107.9715	107.9715	MG/KG	102		93		4		75 - 125	20	P
Potassium		2083.5514		3441.9038		3488.5043		1079.7154	1079.7154	MG/KG	126	N	130	N	1		75 - 125	20	P
Selenium	78	0.0908	B	2.2530		2.5244		2.1175	2.1594	MG/KG	102		113		11		75 - 125	20	MS
Silver	107	0.1293		13.2068		14.0298		10.5875	10.7972	MG/KG	124		129	N	6		75 - 125	20	MS
Sodium		130.0458		1163.4387		1154.3475		1079.7154	1079.7154	MG/KG	96		95		1		75 - 125	20	P
Strontium		21.7493		126.2673		124.3767		107.9715	107.9715	MG/KG	97		95		2		75 - 115	20	P
Thallium	203	0.3795		0.8745		0.9435		0.4235	0.4319	MG/KG	117		131	N	8		75 - 125	20	MS
Tin		2.9455	B	405.7624		398.5165		431.8862	431.8862	MG/KG	93		92		2		80 - 110	20	P
Titanium		1393.0646		1663.9613		1686.1991		107.9715	107.9715	MG/KG	251		271		1		74X	20	P
Vanadium	51	59.0801		67.1671		70.5918		10.5875	10.7972	MG/KG	76		107		5			20	MS
Zinc	66	75.4806		81.8626		85.3623		10.5875	10.7972	MG/KG	60		92		4		74X	20	MS
Zirconium		3.8638	B	110.3825		109.8913		107.9715	107.9715	MG/KG	99		98		0		81 - 110	20	P

DE262

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:
N = Matrix Spike OOS, * = Duplicate OOS

SAMPLE DELIVERY GROUP

DE263

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-Oct-2011	TB-100611	6431143	TB	3520C	1625C	III
06-Oct-2011	TB-100611	6431144	TB	3546	1625C	III
06-Oct-2011	TB-100611	6431145	TB	5030B	8015M	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431133	N	3050B	6010B	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431133	N	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431133	N	3060A	7199	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431133	N	3550B	8081A	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431133	N	3550B	8082	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431133	N	3550B	8151A	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431133	N	3550B	8270C	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431133	N	3550B	8270C SIM	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431133	N	METHOD	300.0	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431133	N	METHOD	314.0	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431133	N	METHOD	7471A	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5DUP	P431133D220308	DUP	3050B	6010B	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5DUP	P431133D220733	DUP	3050B	6010B	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5DUP	P431133D220817	DUP	METHOD	7471A	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5DUP	P431133D220848A	DUP	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5DUP	P431133D220848B	DUP	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5DUP	P431133D220848C	DUP	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5DUP	P431133D220848D	DUP	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5DUP	P431133D221202	DUP	3050B	6010B	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MSD	P431133M220316	MSD	3050B	6010B	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MSD	P431133M220741	MSD	3050B	6010B	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MSD	P431133M220819	MSD	METHOD	7471A	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MSD	P431133M220854A	MSD	3050B	6020	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MSD	P431133M220854B	MSD	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MSD	P431133M220854C	MSD	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MSD	P431133M220854D	MSD	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MSD	P431133M221211	MSD	3050B	6010B	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MSD	P431133M241711A	MSD	3550B	8151A	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MSD	P431133M241929A	MSD	3550B	8081A	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MSD	P431133M260309	MSD	3550B	8270C	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MS	P431133R220312	MS	3050B	6010B	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MS	P431133R220737	MS	3050B	6010B	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MS	P431133R220818	MS	METHOD	7471A	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MS	P431133R220851A	MS	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MS	P431133R220851B	MS	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MS	P431133R220851C	MS	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MS	P431133R220851D	MS	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MS	P431133R221206	MS	3050B	6010B	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MS	P431133R241643A	MS	3550B	8151A	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MS	P431133R241915A	MS	3550B	8081A	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MS	P431133R260244	MS	3550B	8270C	III
06-Oct-2011	SL-229-SA6-SB-2.0-3.0	6431138	N	3050B	6010B	III
06-Oct-2011	SL-229-SA6-SB-2.0-3.0	6431138	N	3050B	6020	III
06-Oct-2011	SL-229-SA6-SB-2.0-3.0	6431138	N	3060A	7199	III
06-Oct-2011	SL-229-SA6-SB-2.0-3.0	6431138	N	3550B	8082	III
06-Oct-2011	SL-229-SA6-SB-2.0-3.0	6431138	N	3550B	8270C	III
06-Oct-2011	SL-229-SA6-SB-2.0-3.0	6431138	N	3550B	8270C SIM	III
06-Oct-2011	SL-229-SA6-SB-2.0-3.0	6431138	N	METHOD	300.0	III
06-Oct-2011	SL-229-SA6-SB-2.0-3.0	6431138	N	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Oct-2011	SL-229-SA6-SB-2.0-3.0	6431138	N	METHOD	7471A	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	3050B	6010B	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	3050B	6020	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	3060A	7199	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	3546	1625C	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	3550B	8015B	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	3550B	8015M	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	3550B	8081A	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	3550B	8082	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	3550B	8151A	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	3550B	8270C	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	3550B	8270C SIM	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	8330	8330A	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	METHOD	300.0	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	METHOD	314.0	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	METHOD	7471A	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	METHOD	8015B	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	METHOD	8015M	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	METHOD	8315A	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	METHOD	9012B	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5MSD	P431134M262100	MSD	3550B	8270C SIM	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5MSD	P431134M322231A	MSD	METHOD	8015B	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5MS	P431134R262028	MS	3550B	8270C SIM	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5MS	P431134R322215A	MS	METHOD	8015B	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	3050B	6010B	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	3050B	6020	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	3060A	7199	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	3546	1625C	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	3550B	8015B	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	3550B	8015M	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	3550B	8082	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	3550B	8270C	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	3550B	8270C SIM	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	5035	8015M	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	8330	8330A	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	METHOD	300.0	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	METHOD	314.0	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	METHOD	7471A	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	METHOD	8015B	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	METHOD	8015M	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	METHOD	8315A	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	METHOD	9012B	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0DUP	P431141D270232A	DUP	METHOD	314.0	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0MS	P431141R270255A	MS	METHOD	314.0	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	3050B	6010B	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	3050B	6020	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	3060A	7199	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	3546	1625C	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	3550B	8015B	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	3550B	8015M	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	3550B	8082	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	3550B	8270C	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	3550B	8270C SIM	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	5035	8015M	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	8330	8330A	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	METHOD	300.0	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	METHOD	314.0	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	METHOD	7471A	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	METHOD	8015B	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	METHOD	8015M	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	METHOD	8315A	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	METHOD	9012B	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	3050B	6010B	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	3050B	6020	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	3060A	7199	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	3546	1625C	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	3550B	8015B	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	3550B	8015M	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	3550B	8082	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	3550B	8270C	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	3550B	8270C SIM	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	5035	8015M	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	8330	8330A	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	METHOD	300.0	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	METHOD	314.0	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	METHOD	7471A	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	METHOD	8015B	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	METHOD	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	METHOD	8315A	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	METHOD	9012B	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5DUP	P431140D272022A	DUP	METHOD	9012B	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5MS	P431140R272023A	MS	METHOD	9012B	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431135	N	3050B	6010B	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431135	N	3050B	6020	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431135	N	3060A	7199	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431135	N	3550B	8081A	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431135	N	3550B	8082	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431135	N	3550B	8151A	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431135	N	3550B	8270C	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431135	N	3550B	8270C SIM	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431135	N	METHOD	300.0	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431135	N	METHOD	314.0	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431135	N	METHOD	7471A	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5MSD	P431135M241429A	MSD	3550B	8082	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5MS	P431135R241411A	MS	3550B	8082	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	3005A	6010B	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	3020A	6020	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	3510C	8015B	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	3510C	8015M	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	3510C	8081A	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	3510C	8082	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	3510C	8270C	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	3510C	8270C SIM	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	3520C	1625C	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	5030B	8015M	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	5030B	8260B	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	5030B	8260B SIM	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	8330	8330A	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	Gen Prep	300.0	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	Gen Prep	314.0	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	Gen Prep	7199	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	Gen Prep	8015B	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	Gen Prep	8015M	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	METHOD	7470A	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	METHOD	8151A	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	METHOD	8315A	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	METHOD	9012B	III
06-Oct-2011	EB-SA6-SB-100611MSD	P431146M320220A	MSD	Gen Prep	8015B	III
06-Oct-2011	EB-SA6-SB-100611MS	P431146R320204A	MS	Gen Prep	8015B	III
06-Oct-2011	EB-SA6-SB-100611	6431142	EB	3520C	1625C	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431136	N	3050B	6010B	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431136	N	3050B	6020	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431136	N	3060A	7199	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431136	N	3550B	8081A	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431136	N	3550B	8082	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431136	N	3550B	8151A	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431136	N	3550B	8270C	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431136	N	3550B	8270C SIM	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431136	N	METHOD	300.0	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431136	N	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431136	N	METHOD	7471A	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5DUP	P431136D270644A	DUP	METHOD	300.0	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5MS	P431136R270657A	MS	METHOD	300.0	III
06-Oct-2011	SL-232-SA6-SB-2.5-3.5	6431137	N	3050B	6010B	III
06-Oct-2011	SL-232-SA6-SB-2.5-3.5	6431137	N	3050B	6020	III
06-Oct-2011	SL-232-SA6-SB-2.5-3.5	6431137	N	3060A	7199	III
06-Oct-2011	SL-232-SA6-SB-2.5-3.5	6431137	N	3550B	8082	III
06-Oct-2011	SL-232-SA6-SB-2.5-3.5	6431137	N	3550B	8270C	III
06-Oct-2011	SL-232-SA6-SB-2.5-3.5	6431137	N	3550B	8270C SIM	III
06-Oct-2011	SL-232-SA6-SB-2.5-3.5	6431137	N	METHOD	300.0	III
06-Oct-2011	SL-232-SA6-SB-2.5-3.5	6431137	N	METHOD	314.0	III
06-Oct-2011	SL-232-SA6-SB-2.5-3.5	6431137	N	METHOD	7471A	III

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IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-229-SA6-SB-2.0-3.0 *Collected:* 10/6/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.6		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-229-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 8:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.84	U	0.84	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-230-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 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	1.3		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-230-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 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	0.84	U	0.84	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-232-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 3:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.86	U	0.86	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-232-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 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
FLUORIDE	1.2		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-234-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 12:15:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-254-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 12:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.83	U	0.83	MDL	1.0	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: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM **Method:** 300.0 **Matrix:** SO

Sample ID: SL-268-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 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	2.6		0.84	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	0.92	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

Method Category: METALS **Method:** 6010B **Matrix:** AQ

Sample ID: EB-SA6-SB-100611 *Collected:* 10/6/2011 2:00:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	0.0068	J	0.0047	MDL	0.100	PQL	mg/L	U	B

Method Category: METALS **Method:** 6010B **Matrix:** SO

Sample ID: SL-229-SA6-SB-2.0-3.0 *Collected:* 10/6/2011 9:00:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	17700		2.61	MDL	20.0	PQL	mg/Kg	J	E

Sample ID: SL-229-SA6-SB-2.0-3.0 *Collected:* 10/6/2011 9:00:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	13400		6.28	MDL	20.8	PQL	mg/Kg	J	E

Sample ID: SL-229-SA6-SB-2.0-3.0 *Collected:* 10/6/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	194		0.0367	MDL	0.509	PQL	mg/Kg	J	E
PHOSPHORUS	347		0.356	MDL	10.2	PQL	mg/Kg	J	Q
POTASSIUM	2710		11.5	MDL	50.9	PQL	mg/Kg	J	Q
SODIUM	85.6	J	6.06	MDL	102	PQL	mg/Kg	J	Z
STRONTIUM	17.5		0.0255	MDL	0.509	PQL	mg/Kg	J	E
TIN	2.38	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.92	J	0.468	MDL	5.09	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: DE263 **Laboratory:** LL

EDD Filename: DE263_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-229-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 8:30:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	17500		2.75	MDL	21.1	PQL	mg/Kg	J	E

Sample ID: SL-229-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 8:30:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	7110		6.26	MDL	20.7	PQL	mg/Kg	J	E

Sample ID: SL-229-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 8:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	246		0.0373	MDL	0.518	PQL	mg/Kg	J	E
PHOSPHORUS	304		0.362	MDL	10.4	PQL	mg/Kg	J	Q
POTASSIUM	1920		11.7	MDL	51.8	PQL	mg/Kg	J	Q
SODIUM	98.9	J	6.16	MDL	104	PQL	mg/Kg	J	Z
STRONTIUM	13.3		0.0259	MDL	0.518	PQL	mg/Kg	J	E
TIN	2.13	J	0.331	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.98	J	0.476	MDL	5.18	PQL	mg/Kg	J	Z

Sample ID: SL-230-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 10:45:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	18500		2.67	MDL	20.4	PQL	mg/Kg	J	E

Sample ID: SL-230-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 10:45:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	10000		6.18	MDL	20.4	PQL	mg/Kg	J	E

Sample ID: SL-230-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 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
MANGANESE	161		0.0364	MDL	0.506	PQL	mg/Kg	J	E
PHOSPHORUS	325		0.354	MDL	10.1	PQL	mg/Kg	J	Q
POTASSIUM	2640		11.4	MDL	50.6	PQL	mg/Kg	J	Q
SODIUM	75.5	J	6.02	MDL	101	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE263 **Laboratory:** LL

EDD Filename: DE263_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-230-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 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
STRONTIUM	10.0		0.0253	MDL	0.506	PQL	mg/Kg	J	E
TIN	2.29	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.42	J	0.466	MDL	5.06	PQL	mg/Kg	J	Z

Sample ID: SL-230-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 10:25:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	14800		2.76	MDL	21.2	PQL	mg/Kg	J	E

Sample ID: SL-230-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 10:25:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	10300		6.34	MDL	20.9	PQL	mg/Kg	J	E

Sample ID: SL-230-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 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
MANGANESE	212		0.0373	MDL	0.519	PQL	mg/Kg	J	E
PHOSPHORUS	284		0.363	MDL	10.4	PQL	mg/Kg	J	Q
POTASSIUM	2250		11.7	MDL	51.9	PQL	mg/Kg	J	Q
SODIUM	88.4	J	6.17	MDL	104	PQL	mg/Kg	J	Z
STRONTIUM	14.9		0.0259	MDL	0.519	PQL	mg/Kg	J	E
TIN	2.88	J	0.332	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.01	J	0.477	MDL	5.19	PQL	mg/Kg	J	Z

Sample ID: SL-232-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 3:30:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	26000		2.78	MDL	21.3	PQL	mg/Kg	J	E

Sample ID: SL-232-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 3:30:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	26100		6.38	MDL	21.1	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-232-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 3:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	451		0.0380	MDL	0.528	PQL	mg/Kg	J	E
PHOSPHORUS	231		0.369	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	1900		11.9	MDL	52.8	PQL	mg/Kg	J	Q
SODIUM	95.5	J	6.28	MDL	106	PQL	mg/Kg	J	Z
STRONTIUM	25.8		0.0264	MDL	0.528	PQL	mg/Kg	J	E
TIN	2.67	J	0.338	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	3.19	J	0.485	MDL	5.28	PQL	mg/Kg	J	Z

Sample ID: SL-232-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 3:00:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	22400		2.96	MDL	22.7	PQL	mg/Kg	J	E

Sample ID: SL-232-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 3:00:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	19600		6.65	MDL	22.0	PQL	mg/Kg	J	E

Sample ID: SL-232-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 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
MANGANESE	317		0.0392	MDL	0.544	PQL	mg/Kg	J	E
PHOSPHORUS	375		0.381	MDL	10.9	PQL	mg/Kg	J	Q
POTASSIUM	4000		12.3	MDL	54.4	PQL	mg/Kg	J	Q
SODIUM	70.0	J	6.48	MDL	109	PQL	mg/Kg	J	Z
STRONTIUM	23.0		0.0272	MDL	0.544	PQL	mg/Kg	J	E
TIN	2.58	J	0.348	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.52	J	0.501	MDL	5.44	PQL	mg/Kg	J	Z

Sample ID: SL-234-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 12:15:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	22500		2.85	MDL	21.9	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: DE263 **Laboratory:** LL

EDD Filename: DE263_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-234-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 12:15:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	16600		6.68	MDL	22.1	PQL	mg/Kg	J	E

Sample ID: SL-234-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 12:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	369		0.0401	MDL	0.557	PQL	mg/Kg	J	E
PHOSPHORUS	521		0.390	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	4600		12.6	MDL	55.7	PQL	mg/Kg	J	Q
SODIUM	72.4	J	6.63	MDL	111	PQL	mg/Kg	J	Z
STRONTIUM	24.2		0.0279	MDL	0.557	PQL	mg/Kg	J	E
TIN	2.74	J	0.357	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.27	J	0.513	MDL	5.57	PQL	mg/Kg	J	Z

Sample ID: SL-254-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 12:10:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	24100		2.65	MDL	20.3	PQL	mg/Kg	J	E

Sample ID: SL-254-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 12:10:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	17100		6.15	MDL	20.3	PQL	mg/Kg	J	E

Sample ID: SL-254-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 12:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	316		0.0366	MDL	0.508	PQL	mg/Kg	J	E
PHOSPHORUS	563		0.356	MDL	10.2	PQL	mg/Kg	J	Q
POTASSIUM	2820		11.5	MDL	50.8	PQL	mg/Kg	J	Q
SODIUM	89.4	J	6.04	MDL	102	PQL	mg/Kg	J	Z
STRONTIUM	18.2		0.0254	MDL	0.508	PQL	mg/Kg	J	E
TIN	2.48	J	0.325	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.30	J	0.467	MDL	5.08	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-268-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 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
IRON	21700		2.68	MDL	20.5	PQL	mg/Kg	J	E

Sample ID: SL-268-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 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
ALUMINUM	16900		6.14	MDL	20.3	PQL	mg/Kg	J	E

Sample ID: SL-268-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 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
MANGANESE	333		0.0373	MDL	0.518	PQL	mg/Kg	J	E
PHOSPHORUS	287		0.362	MDL	10.4	PQL	mg/Kg	J	Q
POTASSIUM	2710		11.7	MDL	51.8	PQL	mg/Kg	J	Q
SODIUM	74.2	J	6.16	MDL	104	PQL	mg/Kg	J	Z
STRONTIUM	17.3		0.0259	MDL	0.518	PQL	mg/Kg	J	E
TIN	2.46	J	0.331	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.07	J	0.476	MDL	5.18	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-229-SA6-SB-2.0-3.0 *Collected:* 10/6/2011 9:00:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.219	J	0.0585	MDL	0.403	PQL	mg/Kg	J	Z, Q

Sample ID: SL-229-SA6-SB-2.0-3.0 *Collected:* 10/6/2011 9:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.631		0.0504	MDL	0.101	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-229-SA6-SB-2.0-3.0 *Collected:* 10/6/2011 9:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.107	MDL	0.403	PQL	mg/Kg	J	E, E, 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: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-229-SA6-SB-2.0-3.0 *Collected:* 10/6/2011 9:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.182	J	0.0746	MDL	0.202	PQL	mg/Kg	J	Z, Q, E
ARSENIC	5.64		0.0807	MDL	0.403	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.606		0.0161	MDL	0.101	PQL	mg/Kg	J	Q, E
CADMIUM	0.214		0.0444	MDL	0.101	PQL	mg/Kg	J	Q, E
CHROMIUM	21.7		0.121	MDL	0.403	PQL	mg/Kg	J	Q, E, E, A
COBALT	6.37		0.0202	MDL	0.101	PQL	mg/Kg	J	Q, E
COPPER	14.3		0.0807	MDL	0.403	PQL	mg/Kg	J	Q, E, E
LEAD	11.7		0.0103	MDL	0.202	PQL	mg/Kg	J	Q, E, E
NICKEL	16.4		0.101	MDL	0.403	PQL	mg/Kg	J	Q, E, E
SILVER	0.202		0.0143	MDL	0.101	PQL	mg/Kg	J	Q, E
THALLIUM	0.279		0.0302	MDL	0.101	PQL	mg/Kg	J	Q, E
VANADIUM	40.0		0.0222	MDL	0.101	PQL	mg/Kg	J	Q, E, E, A
ZINC	79.0		0.565	MDL	3.02	PQL	mg/Kg	J	E, E

Sample ID: SL-229-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 8:30:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0739	J	0.0600	MDL	0.414	PQL	mg/Kg	J	Z, Q

Sample ID: SL-229-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 8:30:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.308		0.0518	MDL	0.104	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-229-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 8:30:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	50.6		0.110	MDL	0.414	PQL	mg/Kg	J	E, E, A

Sample ID: SL-229-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 8:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.160	J	0.0766	MDL	0.207	PQL	mg/Kg	J	Z, Q, E
ARSENIC	3.63		0.0828	MDL	0.414	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.377		0.0166	MDL	0.104	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: DE263 **Laboratory:** LL

EDD Filename: DE263_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-229-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 8:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.127		0.0455	MDL	0.104	PQL	mg/Kg	J	Q, E
CHROMIUM	13.2		0.124	MDL	0.414	PQL	mg/Kg	J	Q, E, E, A
COBALT	4.15		0.0207	MDL	0.104	PQL	mg/Kg	J	Q, E
COPPER	6.13		0.0828	MDL	0.414	PQL	mg/Kg	J	Q, E, E
LEAD	8.58		0.0106	MDL	0.207	PQL	mg/Kg	J	Q, E, E
NICKEL	8.59		0.104	MDL	0.414	PQL	mg/Kg	J	Q, E, E
SILVER	0.0801	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.155		0.0311	MDL	0.104	PQL	mg/Kg	J	Q, E
VANADIUM	23.4		0.0228	MDL	0.104	PQL	mg/Kg	J	Q, E, E, A
ZINC	51.6		0.580	MDL	3.11	PQL	mg/Kg	J	E, E

Sample ID: SL-230-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 10:45:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.118	J	0.0593	MDL	0.409	PQL	mg/Kg	J	Z, Q

Sample ID: SL-230-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 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
MOLYBDENUM	0.528		0.0511	MDL	0.102	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-230-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 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
BARIUM	52.8		0.108	MDL	0.409	PQL	mg/Kg	J	E, E, A

Sample ID: SL-230-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 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	0.123	J	0.0757	MDL	0.204	PQL	mg/Kg	J	Z, Q, E
ARSENIC	5.58		0.0818	MDL	0.409	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.440		0.0164	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	0.126		0.0450	MDL	0.102	PQL	mg/Kg	J	Q, E
CHROMIUM	15.1		0.123	MDL	0.409	PQL	mg/Kg	J	Q, E, E, A
COBALT	4.73		0.0204	MDL	0.102	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: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-230-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 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
COPPER	10.2		0.0818	MDL	0.409	PQL	mg/Kg	J	Q, E, E
LEAD	5.79		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, E, E
NICKEL	12.6		0.102	MDL	0.409	PQL	mg/Kg	J	Q, E, E
SILVER	0.491		0.0145	MDL	0.102	PQL	mg/Kg	J	Q, E
THALLIUM	0.215		0.0307	MDL	0.102	PQL	mg/Kg	J	Q, E
VANADIUM	29.1		0.0225	MDL	0.102	PQL	mg/Kg	J	Q, E, E, A
ZINC	61.2		0.572	MDL	3.07	PQL	mg/Kg	J	E, E

Sample ID: SL-230-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 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	0.221	J	0.0614	MDL	0.423	PQL	mg/Kg	J	Z, Q

Sample ID: SL-230-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 10:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.923		0.0529	MDL	0.106	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-230-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 10:25:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	88.8		0.112	MDL	0.423	PQL	mg/Kg	J	E, E, A

Sample ID: SL-230-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 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	0.211	J	0.0783	MDL	0.212	PQL	mg/Kg	J	Z, Q, E
ARSENIC	5.85		0.0846	MDL	0.423	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.563		0.0169	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.758		0.0465	MDL	0.106	PQL	mg/Kg	J	Q, E
CHROMIUM	23.7		0.127	MDL	0.423	PQL	mg/Kg	J	Q, E, E, A
COBALT	6.74		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	18.4		0.0846	MDL	0.423	PQL	mg/Kg	J	Q, E, E
LEAD	19.4		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, E, E
NICKEL	15.9		0.106	MDL	0.423	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

Data Qualifier Summary

Lab Reporting Batch ID: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-230-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 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
SILVER	9.47		0.0150	MDL	0.106	PQL	mg/Kg	J	Q, E
THALLIUM	0.224		0.0317	MDL	0.106	PQL	mg/Kg	J	Q, E
VANADIUM	31.4		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, E, E, A
ZINC	104		0.592	MDL	3.17	PQL	mg/Kg	J	E, E

Sample ID: SL-232-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 3:30:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.226	J	0.0618	MDL	0.426	PQL	mg/Kg	J	Z, Q

Sample ID: SL-232-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 3:30:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.33		0.0533	MDL	0.107	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-232-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 3:30:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	117		0.113	MDL	0.426	PQL	mg/Kg	J	E, E, A

Sample ID: SL-232-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 3:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.220		0.0789	MDL	0.213	PQL	mg/Kg	J	Q, E
ARSENIC	10.6		0.0853	MDL	0.426	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.16		0.0171	MDL	0.107	PQL	mg/Kg	J	Q, E
CADMIUM	0.0469	U	0.0469	MDL	0.107	PQL	mg/Kg	UJ	E
CHROMIUM	31.2		0.128	MDL	0.426	PQL	mg/Kg	J	Q, E, E, A
COBALT	8.10		0.0213	MDL	0.107	PQL	mg/Kg	J	Q, E
COPPER	14.2		0.0853	MDL	0.426	PQL	mg/Kg	J	Q, E, E
LEAD	8.98		0.0109	MDL	0.213	PQL	mg/Kg	J	Q, E, E
NICKEL	19.5		0.107	MDL	0.426	PQL	mg/Kg	J	Q, E, E
SILVER	0.113		0.0151	MDL	0.107	PQL	mg/Kg	J	Q, E
THALLIUM	0.348		0.0320	MDL	0.107	PQL	mg/Kg	J	Q, E
VANADIUM	59.2		0.0234	MDL	0.107	PQL	mg/Kg	J	Q, E, E, 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: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-232-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 3:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	62.3		0.597	MDL	3.20	PQL	mg/Kg	J	E, E

Sample ID: SL-232-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 3:00:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.219	J	0.0638	MDL	0.440	PQL	mg/Kg	J	Z, Q

Sample ID: SL-232-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 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
MOLYBDENUM	1.00		0.0550	MDL	0.110	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-232-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 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
BARIUM	165		0.117	MDL	0.440	PQL	mg/Kg	J	E, E, A

Sample ID: SL-232-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 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	0.239		0.0814	MDL	0.220	PQL	mg/Kg	J	Q, E
ARSENIC	8.71		0.0880	MDL	0.440	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.988		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, E
CADMIUM	0.257		0.0484	MDL	0.110	PQL	mg/Kg	J	Q, E
CHROMIUM	28.6		0.132	MDL	0.440	PQL	mg/Kg	J	Q, E, E, A
COBALT	10.4		0.0220	MDL	0.110	PQL	mg/Kg	J	Q, E
COPPER	15.1		0.0880	MDL	0.440	PQL	mg/Kg	J	Q, E, E
LEAD	11.7		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, E, E
NICKEL	23.3		0.110	MDL	0.440	PQL	mg/Kg	J	Q, E, E
SILVER	0.0725	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.381		0.0330	MDL	0.110	PQL	mg/Kg	J	Q, E
VANADIUM	56.6		0.0242	MDL	0.110	PQL	mg/Kg	J	Q, E, E, A
ZINC	82.2		0.616	MDL	3.30	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-234-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 12:15:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.154	J	0.0628	MDL	0.433	PQL	mg/Kg	J	Z, Q

Sample ID: SL-234-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 12:15:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.951		0.0541	MDL	0.108	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-234-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 12:15:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	164		0.115	MDL	0.433	PQL	mg/Kg	J	E, E, A

Sample ID: SL-234-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 12:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.258		0.0801	MDL	0.217	PQL	mg/Kg	J	Q, E
ARSENIC	7.67		0.0866	MDL	0.433	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.855		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.338		0.0476	MDL	0.108	PQL	mg/Kg	J	Q, E
CHROMIUM	28.8		0.130	MDL	0.433	PQL	mg/Kg	J	Q, E, E, A
COBALT	9.94		0.0217	MDL	0.108	PQL	mg/Kg	J	Q, E
COPPER	16.4		0.0866	MDL	0.433	PQL	mg/Kg	J	Q, E, E
LEAD	20.3		0.0110	MDL	0.217	PQL	mg/Kg	J	Q, E, E
NICKEL	22.4		0.108	MDL	0.433	PQL	mg/Kg	J	Q, E, E
SILVER	0.154		0.0154	MDL	0.108	PQL	mg/Kg	J	Q, E
THALLIUM	0.364		0.0325	MDL	0.108	PQL	mg/Kg	J	Q, E
VANADIUM	53.8		0.0238	MDL	0.108	PQL	mg/Kg	J	Q, E, E, A
ZINC	101		0.606	MDL	3.25	PQL	mg/Kg	J	E, E

Sample ID: SL-254-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 12:10:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.319	J	0.0595	MDL	0.410	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE263 **Laboratory: LL**

EDD Filename: DE263_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-254-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 12:10:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.691		0.0513	MDL	0.103	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-254-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 12:10:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	108		0.109	MDL	0.410	PQL	mg/Kg	J	E, E, A

Sample ID: SL-254-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 12:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.129	J	0.0759	MDL	0.205	PQL	mg/Kg	J	Z, Q, E
ARSENIC	7.92		0.0821	MDL	0.410	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.789		0.0164	MDL	0.103	PQL	mg/Kg	J	Q, E
CADMIUM	0.140		0.0451	MDL	0.103	PQL	mg/Kg	J	Q, E
CHROMIUM	26.2		0.123	MDL	0.410	PQL	mg/Kg	J	Q, E, E, A
COBALT	9.65		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	12.5		0.0821	MDL	0.410	PQL	mg/Kg	J	Q, E, E
LEAD	7.71		0.0105	MDL	0.205	PQL	mg/Kg	J	Q, E, E
NICKEL	17.2		0.103	MDL	0.410	PQL	mg/Kg	J	Q, E, E
SILVER	0.0710	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.369		0.0308	MDL	0.103	PQL	mg/Kg	J	Q, E
VANADIUM	51.7		0.0226	MDL	0.103	PQL	mg/Kg	J	Q, E, E, A
ZINC	78.2		0.575	MDL	3.08	PQL	mg/Kg	J	E, E

Sample ID: SL-268-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 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	0.206	J	0.0589	MDL	0.406	PQL	mg/Kg	J	Z, Q

Sample ID: SL-268-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 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	1.20		0.0508	MDL	0.102	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

Data Qualifier Summary

Lab Reporting Batch ID: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS **Method:** 6020 **Matrix:** SO

Sample ID: SL-268-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 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	98.4		0.108	MDL	0.406	PQL	mg/Kg	J	E, E, A

Sample ID: SL-268-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 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	0.154	J	0.0752	MDL	0.203	PQL	mg/Kg	J	Z, Q, E
ARSENIC	7.19		0.0812	MDL	0.406	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.714		0.0162	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	0.118		0.0447	MDL	0.102	PQL	mg/Kg	J	Q, E
CHROMIUM	22.5		0.122	MDL	0.406	PQL	mg/Kg	J	Q, E, E, A
COBALT	7.62		0.0203	MDL	0.102	PQL	mg/Kg	J	Q, E
COPPER	10.1		0.0812	MDL	0.406	PQL	mg/Kg	J	Q, E, E
LEAD	6.47		0.0104	MDL	0.203	PQL	mg/Kg	J	Q, E, E
NICKEL	17.9		0.102	MDL	0.406	PQL	mg/Kg	J	Q, E, E
SILVER	0.101	J	0.0144	MDL	0.102	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.299		0.0305	MDL	0.102	PQL	mg/Kg	J	Q, E
VANADIUM	45.1		0.0223	MDL	0.102	PQL	mg/Kg	J	Q, E, E, A
ZINC	65.8		0.569	MDL	3.05	PQL	mg/Kg	J	E, E

Method Category: METALS **Method:** 7199 **Matrix:** SO

Sample ID: SL-229-SA6-SB-2.0-3.0 *Collected:* 10/6/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.29	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-229-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 8:30:00 *Analysis Type:* RES *Dilution:* 1

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS **Method:** 7199 **Matrix:** SO

Sample ID: SL-230-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 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	0.52	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-232-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 3:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.66	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-254-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 12:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.24	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-268-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 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	0.45	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS **Method:** 7470A **Matrix:** AQ

Sample ID: EB-SA6-SB-100611 *Collected:* 10/6/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.000058	J	0.000026	MDL	0.00020	PQL	mg/L	U	B, B

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

Sample ID: SL-229-SA6-SB-2.0-3.0 *Collected:* 10/6/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0125	J	0.0068	MDL	0.0973	PQL	mg/Kg	U	B, F

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A Matrix: SO

Sample ID: SL-230-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 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	0.0441	J	0.0072	MDL	0.103	PQL	mg/Kg	U	F

Sample ID: SL-232-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 3:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0122	J	0.0074	MDL	0.105	PQL	mg/Kg	U	B, F

Sample ID: SL-232-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 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	0.0127	J	0.0078	MDL	0.111	PQL	mg/Kg	U	B, F

Sample ID: SL-234-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 12:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0159	J	0.0075	MDL	0.106	PQL	mg/Kg	U	B, F

Sample ID: SL-254-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 12:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0137	J	0.0071	MDL	0.100	PQL	mg/Kg	U	B, F

Sample ID: SL-268-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 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	0.0675	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C Matrix: AQ

Sample ID: EB-SA6-SB-100611 *Collected:* 10/6/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.05		0.476	MDL	0.952	PQL	ng/L	J	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-268-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 10:30:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.61	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-229-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 8:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.12	J	0.038	MDL	0.18	PQL	ug/Kg	J	Z

Sample ID: SL-232-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 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	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	UJ	S
4,4'-DDE	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	UJ	S
4,4'-DDT	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	UJ	S
ALDRIN	0.075	U	0.075	MDL	0.19	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.039	U	0.039	MDL	0.19	PQL	ug/Kg	UJ	S
BETA-BHC	0.068	U	0.068	MDL	0.19	PQL	ug/Kg	UJ	S
Chlordane	0.91	U	0.91	MDL	3.9	PQL	ug/Kg	UJ	S
DELTA-BHC	0.041	U	0.041	MDL	0.19	PQL	ug/Kg	UJ	S
DIELDRIN	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.050	U	0.050	MDL	0.19	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	UJ	S
ENDRIN	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.039	U	0.039	MDL	0.19	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.068	U	0.068	MDL	0.19	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.039	U	0.039	MDL	0.19	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.39	U	0.39	MDL	1.9	PQL	ug/Kg	UJ	S
MIREX	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	UJ	S
TOXAPHENE	2.5	U	2.5	MDL	7.5	PQL	ug/Kg	UJ	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: DE263 **Laboratory:** LL

EDD Filename: DE263_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-234-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 12:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.074	U	0.074	MDL	0.38	PQL	ug/Kg	UJ	S
4,4'-DDE	0.074	U	0.074	MDL	0.38	PQL	ug/Kg	UJ	S
4,4'-DDT	0.074	U	0.074	MDL	0.38	PQL	ug/Kg	UJ	S
ALDRIN	0.074	U	0.074	MDL	0.19	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.057	J	0.038	MDL	0.19	PQL	ug/Kg	J	Z, S
BETA-BHC	0.068	U	0.068	MDL	0.19	PQL	ug/Kg	UJ	S
Chlordane	0.90	U	0.90	MDL	3.8	PQL	ug/Kg	UJ	S
DELTA-BHC	0.041	U	0.041	MDL	0.19	PQL	ug/Kg	UJ	S
DIELDRIN	0.074	U	0.074	MDL	0.38	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.050	U	0.050	MDL	0.19	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.074	U	0.074	MDL	0.38	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.074	U	0.074	MDL	0.38	PQL	ug/Kg	UJ	S
ENDRIN	0.074	U	0.074	MDL	0.38	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.096	J	0.074	MDL	0.38	PQL	ug/Kg	J	Z, S
ENDRIN KETONE	0.074	U	0.074	MDL	0.38	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.038	U	0.038	MDL	0.19	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.068	U	0.068	MDL	0.19	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.038	U	0.038	MDL	0.19	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.38	U	0.38	MDL	1.9	PQL	ug/Kg	UJ	S
MIREX	0.074	U	0.074	MDL	0.38	PQL	ug/Kg	UJ	S
TOXAPHENE	2.5	U	2.5	MDL	7.4	PQL	ug/Kg	UJ	S

Method Category: SVOA

Method: 8082 **Matrix:** AQ

Sample ID: EB-SA6-SB-100611 *Collected:* 10/6/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.10	U	0.10	MDL	0.51	PQL	ug/L	UJ	E
AROCLOR 1221	0.10	U	0.10	MDL	0.51	PQL	ug/L	UJ	E
AROCLOR 1232	0.20	U	0.20	MDL	0.51	PQL	ug/L	UJ	E
AROCLOR 1242	0.10	U	0.10	MDL	0.51	PQL	ug/L	UJ	E
AROCLOR 1248	0.10	U	0.10	MDL	0.51	PQL	ug/L	UJ	E
AROCLOR 1254	0.10	U	0.10	MDL	0.51	PQL	ug/L	UJ	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA **Method:** 8082 **Matrix:** AQ

Sample ID: EB-SA6-SB-100611 *Collected:* 10/6/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.15	U	0.15	MDL	0.51	PQL	ug/L	UJ	E
Aroclor 1262	0.20	U	0.20	MDL	0.51	PQL	ug/L	UJ	E
Aroclor 1268	0.16	U	0.16	MDL	0.51	PQL	ug/L	UJ	E

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

Sample ID: SL-230-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 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
AROCLOR 1260	1.6	J	0.40	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	1.8	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-234-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 12:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.93	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-254-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 12:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.1	J	0.40	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-268-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 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 1254	0.51	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.72	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-229-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 8:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	4.7	U	4.7	MDL	9.6	PQL	ug/Kg	R	Q
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	UJ	Q

Sample ID: SL-230-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 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
2,4-D	1.3	J	1.3	MDL	3.8	PQL	ug/Kg	J	Z
DICAMBA	0.57	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z

Sample ID: SL-232-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 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-D	1.6	J	1.4	MDL	4.1	PQL	ug/Kg	J	Z
DICAMBA	0.50	J	0.45	MDL	1.4	PQL	ug/Kg	J	Z

Sample ID: SL-234-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 12:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	2.2	J	1.3	MDL	4.0	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-229-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 8:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,5-Dimethylphenol	36	U	36	MDL	180	PQL	ug/Kg	R	Q
BENZIDINE	1200	U	1200	MDL	3600	PQL	ug/Kg	R	Q

Sample ID: SL-230-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 10:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	20	J	18	MDL	180	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: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-232-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 3:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	34	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-234-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 12:15:00 *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	38	J	19	MDL	380	PQL	ug/Kg	J	Z

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

Sample ID: EB-SA6-SB-100611 *Collected:* 10/6/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.13	J	0.048	MDL	0.95	PQL	ug/L	J	Z
Diethylphthalate	0.15	J	0.048	MDL	0.95	PQL	ug/L	J	Z
Di-n-butylphthalate	0.30	J	0.048	MDL	0.95	PQL	ug/L	J	Z
NAPHTHALENE	0.033	J	0.029	MDL	0.048	PQL	ug/L	J	Z

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

Sample ID: SL-229-SA6-SB-2.0-3.0 *Collected:* 10/6/2011 9:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.1	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	6.2	MDL	19	PQL	ug/Kg	U	B
INDENO(1,2,3-CD)PYRENE	0.77	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

Sample ID: SL-229-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 8:30:00 *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	6.7	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	34	J	32	MDL	96	PQL	ug/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: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-229-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 8:30:00 *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	1.9	J	1.8	MDL	8.9	PQL	ug/Kg	J	Z

Sample ID: SL-230-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 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
BENZO(B)FLUORANTHENE	1.4	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.6	J	6.2	MDL	19	PQL	ug/Kg	U	B
CHRYSENE	0.41	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-230-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 10:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	3.7	J	1.8	MDL	8.9	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	8.2	J	3.5	MDL	8.9	PQL	ug/Kg	J	Z

Sample ID: SL-232-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 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
BENZO(B)FLUORANTHENE	1.7	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	39		6.8	MDL	20	PQL	ug/Kg	U	B
CHRYSENE	0.38	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-234-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 12:15:00 *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(A)PYRENE	0.92	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.77	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.6	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	1.8	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
FLUORENE	0.79	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
NAPHTHALENE	0.82	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.3	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.6	J	0.75	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: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-254-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 12:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.93	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	6.2	MDL	19	PQL	ug/Kg	U	B
Butylbenzylphthalate	8.2	J	6.2	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	0.38	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-268-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 10:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	33	J	31	MDL	94	PQL	ug/Kg	U	B
CHRYSENE	2.1	J	1.7	MDL	8.7	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-230-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 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
ETHANOL	110	U	110	MDL	530	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE263 **Laboratory: LL**

EDD Filename: DE263_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
L	Laboratory Control Precision
L	Laboratory Control Spike Upper Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Upper Estimation
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE263

Method Blank Outlier Report

Lab Reporting Batch ID: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28448IB220323	10/14/2011 3:23:00 AM	STRONTIUM	0.00035 mg/L	EB-SA6-SB-100611

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28308AB220247	10/19/2011 2:47:00 AM	CALCIUM	8.18 mg/Kg	SL-229-SA6-SB-2.0-3.0
		MANGANESE	0.0400 mg/Kg	SL-229-SA6-SS-0.0-0.5
		PHOSPHORUS	1.24 mg/Kg	SL-230-SA6-SB-4.0-5.0
		STRONTIUM	0.0440 mg/Kg	SL-230-SA6-SS-0.0-0.5
		TIN	1.46 mg/Kg	SL-232-SA6-SB-2.5-3.5
				SL-232-SA6-SS-0.0-0.5
				SL-234-SA6-SS-0.0-0.5
				SL-254-SA6-SB-2.5-3.5
				SL-268-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-229-SA6-SB-2.0-3.0(RES)	TIN	2.38 mg/Kg	2.38U mg/Kg
SL-229-SA6-SS-0.0-0.5(RES)	TIN	2.13 mg/Kg	2.13U mg/Kg
SL-230-SA6-SB-4.0-5.0(RES)	TIN	2.29 mg/Kg	2.29U mg/Kg
SL-230-SA6-SS-0.0-0.5(RES)	TIN	2.88 mg/Kg	2.88U mg/Kg
SL-232-SA6-SB-2.5-3.5(RES)	TIN	2.67 mg/Kg	2.67U mg/Kg
SL-232-SA6-SS-0.0-0.5(RES)	TIN	2.58 mg/Kg	2.58U mg/Kg
SL-234-SA6-SS-0.0-0.5(RES)	TIN	2.74 mg/Kg	2.74U mg/Kg
SL-254-SA6-SB-2.5-3.5(RES)	TIN	2.48 mg/Kg	2.48U mg/Kg
SL-268-SA6-SB-4.0-5.0(RES)	TIN	2.46 mg/Kg	2.46U mg/Kg

Method: 7470A
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28313EB221002	10/11/2011 10:02:00 AM	MERCURY	0.000063 mg/L	EB-SA6-SB-100611

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-100611(RES)	MERCURY	0.000058 mg/L	0.000058U mg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLB28B261854	10/14/2011 6:54:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE	13 ug/Kg	SL-229-SA6-SB-2.0-3.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5 SL-268-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-229-SA6-SB-2.0-3.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	18 ug/Kg	19U ug/Kg
SL-229-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	34 ug/Kg	96U ug/Kg
SL-230-SA6-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	9.6 ug/Kg	19U ug/Kg
SL-232-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	39 ug/Kg	39U ug/Kg
SL-254-SA6-SB-2.5-3.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	12 ug/Kg	19U ug/Kg
SL-268-SA6-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	33 ug/Kg	94U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-230-SA6-SS-0.0-0.5MS SL-230-SA6-SS-0.0-0.5MSD (SL-230-SA6-SS-0.0-0.5)	ETHANOL	42	43	48.00-130.00	-	ETHANOL	J (all detects) UJ (alt non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SS-0.0-0.5)	2,4-DB	-	-	10.00-201.00	60 (50.00)	2,4-DB	J(all detects)
SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SS-0.0-0.5)	DALAPON	-	0	10.00-125.00	200 (50.00)	DALAPON	J(all detects) R(all non-detects)
SL-229-SA6-SS-0.0-0.5MS SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SS-0.0-0.5)	DINOSEB	8	8	10.00-46.00	-	DINOSEB	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-229-SA6-SS-0.0-0.5MS SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SB-2.0-3.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5 SL-268-SA6-SB-4.0-5.0)	ARSENIC COBALT	235 158	178 131	75.00-125.00 75.00-125.00	- -	ARSENIC COBALT	J(all detects)
SL-229-SA6-SS-0.0-0.5MS SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SB-2.0-3.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5 SL-268-SA6-SB-4.0-5.0)	ANTIMONY BERYLLIUM CADMIUM CHROMIUM COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	- 168 162 258 189 299 243 151 174 257 441	69 - 129 136 134 184 141 - - 161 217	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	- 25 (20.00) 22 (20.00) 38 (20.00) 26 (20.00) 23 (20.00) 38 (20.00) 22 (20.00) 28 (20.00) 23 (20.00) 28 (20.00)	ANTIMONY BERYLLIUM CADMIUM CHROMIUM COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	J(all detects) UJ(all non-detects) Zn, No Qual %R, >4x
SL-229-SA6-SS-0.0-0.5MS SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SB-2.0-3.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5 SL-268-SA6-SB-4.0-5.0)	SELENIUM	144	128	75.00-125.00	-	SELENIUM	J(all detects)

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE263 Laboratory: LL

EDD Filename: DE263_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-229-SA6-SS-0.0-0.5MS SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SB-2.0-3.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5 SL-268-SA6-SB-4.0-5.0)	MOLYBDENUM	157	-	75.00-125.00	26 (20.00)	MOLYBDENUM	J(all detects) UJ(all non-detects)
SL-229-SA6-SS-0.0-0.5MS SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SB-2.0-3.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5 SL-268-SA6-SB-4.0-5.0)	BARIUM	416	220	75.00-125.00	25 (20.00)	BARIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-229-SA6-SS-0.0-0.5MS SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SB-2.0-3.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5 SL-268-SA6-SB-4.0-5.0)	POTASSIUM TITANIUM	135 257	147 268	75.00-125.00 75.00-125.00	- -	POTASSIUM TITANIUM	J(all detects) Ti, No Qual, >4x
SL-229-SA6-SS-0.0-0.5MS SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SB-2.0-3.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5 SL-268-SA6-SB-4.0-5.0)	MANGANESE	16	66	75.00-125.00	-	MANGANESE	No Qual, >4x
SL-229-SA6-SS-0.0-0.5MS (SL-229-SA6-SB-2.0-3.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5 SL-268-SA6-SB-4.0-5.0)	PHOSPHORUS	72	-	75.00-125.00	-	PHOSPHORUS	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE263 **Laboratory: LL**

EDD Filename: DE263_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SS-0.0-0.5)	BIS(2-CHLOROETHOXY)METHA ISOPHORONE	- -	107 109	75.00-104.00 73.00-102.00	- -	BIS(2-CHLOROETHOXY)METH ISOPHORONE	J(all detects)
SL-229-SA6-SS-0.0-0.5MS SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SS-0.0-0.5)	3,5-Dimethylphenol BENZIDINE	0 0	0 0	71.00-127.00 35.00-141.00	- -	3,5-Dimethylphenol BENZIDINE	J(all detects) R(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-230-SA6-SS-0.0-0.5MS SL-230-SA6-SS-0.0-0.5MSD (SL-230-SA6-SS-0.0-0.5)	BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE Butylbenzylphthalate	- - 177	- - -	43.00-155.00 57.00-153.00 57.00-173.00	55 (30.00) 44 (30.00) -	BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE Butylbenzylphthalate	No Qual, Diluted Out
SL-230-SA6-SS-0.0-0.5MS SL-230-SA6-SS-0.0-0.5MSD (SL-230-SA6-SS-0.0-0.5)	Diethylphthalate Dimethylphthalate	- 0	0 0	70.00-136.00 74.00-118.00	200 (30.00) -	Diethylphthalate Dimethylphthalate	No Qual, Diluted Out
SL-230-SA6-SS-0.0-0.5MS SL-230-SA6-SS-0.0-0.5MSD (SL-230-SA6-SS-0.0-0.5)	BENZO(A)ANTHRACENE BENZO(A)PYRENE CHRYSENE FLUORANTHENE PYRENE	48 57 37 1 6	176 - 162 178 178	59.00-128.00 58.00-142.00 48.00-134.00 26.00-166.00 15.00-153.00	78 (30.00) 57 (30.00) 75 (30.00) 87 (30.00) 85 (30.00)	BENZO(A)ANTHRACENE BENZO(A)PYRENE CHRYSENE FLUORANTHENE PYRENE	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-232-SA6-SS-0.0-0.5MS (SL-229-SA6-SB-2.0-3.0 SL -229-SA6-SS-0.0-0.5 SL -230-SA6-SB-4.0-5.0 SL -230-SA6-SS-0.0-0.5 SL -232-SA6-SB-2.5-3.5 SL -232-SA6-SS-0.0-0.5 SL -234-SA6-SS-0.0-0.5 SL -254-SA6-SB-2.5-3.5 SL -268-SA6-SB-4.0-5.0)	FLUORIDE	48	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE263 **Laboratory: LL**

EDD Filename: DE263_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-229-SA6-SS-0.0-0.5MS SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SB-2.0-3.0 SL -229-SA6-SS-0.0-0.5 SL -230-SA6-SB-4.0-5.0 SL -230-SA6-SS-0.0-0.5 SL -232-SA6-SB-2.5-3.5 SL -232-SA6-SS-0.0-0.5 SL -234-SA6-SS-0.0-0.5 SL -254-SA6-SB-2.5-3.5 SL -268-SA6-SB-4.0-5.0)	IRON MAGNESIUM	-2605 -35	-2803 -83	75.00-125.00 75.00-125.00	- -	IRON MAGNESIUM	No Qual, >4x
SL-229-SA6-SS-0.0-0.5MS SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SB-2.0-3.0 SL -229-SA6-SS-0.0-0.5 SL -230-SA6-SB-4.0-5.0 SL -230-SA6-SS-0.0-0.5 SL -232-SA6-SB-2.5-3.5 SL -232-SA6-SS-0.0-0.5 SL -234-SA6-SS-0.0-0.5 SL -254-SA6-SB-2.5-3.5 SL -268-SA6-SB-4.0-5.0)	ALUMINUM	1357	1385	75.00-125.00	-	ALUMINUM	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-232-SA6-SS-0.0-0.5DUP (SL-229-SA6-SB-2.0-3.0 SL -229-SA6-SS-0.0-0.5 SL -230-SA6-SB-4.0-5.0 SL -230-SA6-SS-0.0-0.5 SL -232-SA6-SB-2.5-3.5 SL -232-SA6-SS-0.0-0.5 SL -234-SA6-SS-0.0-0.5 SL -254-SA6-SB-2.5-3.5 SL -268-SA6-SB-4.0-5.0)	FLUORIDE	200	20.00	No Qual, OK by Difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-229-SA6-SS-0.0-0.5DUP (SL-229-SA6-SB-2.0-3.0 SL -229-SA6-SS-0.0-0.5 SL -230-SA6-SB-4.0-5.0 SL -230-SA6-SS-0.0-0.5 SL -232-SA6-SB-2.5-3.5 SL -232-SA6-SS-0.0-0.5 SL -234-SA6-SS-0.0-0.5 SL -254-SA6-SB-2.5-3.5 SL -268-SA6-SB-4.0-5.0)	ALUMINUM	23	20.00	
	IRON	22	20.00	
	MANGANESE	39	20.00	
	SODIUM	52	20.00	
	STRONTIUM	28	20.00	J(all detects) UJ(all non-detects)
	Zirconium	26	20.00	
				Na, Zr, No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-229-SA6-SS-0.0-0.5DUP (SL-229-SA6-SB-2.0-3.0 SL -229-SA6-SS-0.0-0.5 SL -230-SA6-SB-4.0-5.0 SL -230-SA6-SS-0.0-0.5 SL -232-SA6-SB-2.5-3.5 SL -232-SA6-SS-0.0-0.5 SL -234-SA6-SS-0.0-0.5 SL -254-SA6-SB-2.5-3.5 SL -268-SA6-SB-4.0-5.0)	ANTIMONY	30	20.00	
	ARSENIC	54	20.00	
	BARIUM	43	20.00	
	BERYLLIUM	30	20.00	
	CADMIUM	73	20.00	
	CHROMIUM	49	20.00	
	COBALT	91	20.00	J(all detects)
	COPPER	43	20.00	UJ(all non-detects)
	LEAD	41	20.00	
	MOLYBDENUM	0.2985 mg/kg	0.208 mg/kg	
	NICKEL	51	20.00	
	SELENIUM	22	20.00	Be, Cd, Se, No Qual,
	VANADIUM	38	20.00	OK by Difference
	ZINC	44	20.00	

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE263 **Laboratory: LL**

EDD Filename: DE263_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
SL-229-SA6-SS-0.0-0.5DUP (SL-229-SA6-SB-2.0-3.0 SL -229-SA6-SS-0.0-0.5 SL -230-SA6-SB-4.0-5.0 SL -230-SA6-SS-0.0-0.5 SL -232-SA6-SB-2.5-3.5 SL -232-SA6-SS-0.0-0.5 SL -234-SA6-SS-0.0-0.5 SL -254-SA6-SB-2.5-3.5 SL -268-SA6-SB-4.0-5.0)	MERCURY	200	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12858AY241027A (EB-SA6-SB-100611)	AROCLOR 1016	-	-	51.00-128.00	47 (30.00)	AROCLOR 1016, 1221, 1232	J (all detects)
	AROCLOR 1260	-	-	56.00-135.00	54 (30.00)	AROCLOR 1260, 1242, 1248, 1254, 1262, 1268	UJ (all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12863AQ241831A (SL-229-SA6-SS-0.0-0.5 SL -230-SA6-SS-0.0-0.5 SL -232-SA6-SS-0.0-0.5 SL -234-SA6-SS-0.0-0.5)	METHOXYCHLOR	139	-	59.00-125.00	-	METHOXYCHLOR	J(all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P28326AQ220839A (SL-229-SA6-SB-2.0-3.0 SL -229-SA6-SS-0.0-0.5 SL -230-SA6-SB-4.0-5.0 SL -230-SA6-SS-0.0-0.5 SL -232-SA6-SB-2.5-3.5 SL -232-SA6-SS-0.0-0.5 SL -234-SA6-SS-0.0-0.5 SL -254-SA6-SB-2.5-3.5 SL -268-SA6-SB-4.0-5.0)	ANTIMONY	132	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE263 Laboratory: LL

EDD Filename: DE263_v1 eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-100611	N-Nitrosodimethylamine-d6 N-Nitrosodimethylamine-d6	255 258	50.00-150.00 50.00-150.00	All Target Analytes	J (all detects)

Method: 1625C
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-230-SA6-SS-0.0-0.5	N-Nitrosodimethylamine-d6	171	50.00-150.00	All Target Analytes	J(all detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-232-SA6-SS-0.0-0.5	TETRACHLORO-M-XYLENE	41	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-234-SA6-SS-0.0-0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	11 10	20.00-120.00 50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE263 | Laboratory: LL

EDD Filename: DE263_v1 | eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-100611	PHOSPHORUS	J	0.0068	0.100	PQL	mg/L	J (all detects)

Method: 7470A

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-100611	MERCURY	J	0.000058	0.00020	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-100611	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.13	0.95	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.15	0.95	PQL	ug/L	
	Di-n-butylphthalate	J	0.30	0.95	PQL	ug/L	
	NAPHTHALENE	J	0.033	0.048	PQL	ug/L	

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-268-SA6-SB-4.0-5.0	Nitrate-NO3	J	0.92	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-229-SA6-SB-2.0-3.0	SODIUM	J	85.6	102	PQL	mg/Kg	J (all detects)
	TIN	J	2.38	10.2	PQL	mg/Kg	
	Zirconium	J	1.92	5.09	PQL	mg/Kg	
SL-229-SA6-SS-0.0-0.5	SODIUM	J	98.9	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.13	10.4	PQL	mg/Kg	
	Zirconium	J	1.98	5.18	PQL	mg/Kg	
SL-230-SA6-SB-4.0-5.0	SODIUM	J	75.5	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.29	10.1	PQL	mg/Kg	
	Zirconium	J	1.42	5.06	PQL	mg/Kg	
SL-230-SA6-SS-0.0-0.5	SODIUM	J	88.4	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.88	10.4	PQL	mg/Kg	
	Zirconium	J	2.01	5.19	PQL	mg/Kg	
SL-232-SA6-SB-2.5-3.5	SODIUM	J	95.5	106	PQL	mg/Kg	J (all detects)
	TIN	J	2.67	10.6	PQL	mg/Kg	
	Zirconium	J	3.19	5.28	PQL	mg/Kg	
SL-232-SA6-SS-0.0-0.5	SODIUM	J	70.0	109	PQL	mg/Kg	J (all detects)
	TIN	J	2.58	10.9	PQL	mg/Kg	
	Zirconium	J	1.52	5.44	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE263 **Laboratory: LL**

EDD Filename: DE263_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-229-SA6-SB-2.0-3.0	MERCURY	J	0.0125	0.0973	PQL	mg/Kg	J (all detects)
SL-230-SA6-SS-0.0-0.5	MERCURY	J	0.0441	0.103	PQL	mg/Kg	J (all detects)
SL-232-SA6-SB-2.5-3.5	MERCURY	J	0.0122	0.105	PQL	mg/Kg	J (all detects)
SL-232-SA6-SS-0.0-0.5	MERCURY	J	0.0127	0.111	PQL	mg/Kg	J (all detects)
SL-234-SA6-SS-0.0-0.5	MERCURY	J	0.0159	0.106	PQL	mg/Kg	J (all detects)
SL-254-SA6-SB-2.5-3.5	MERCURY	J	0.0137	0.100	PQL	mg/Kg	J (all detects)
SL-268-SA6-SB-4.0-5.0	MERCURY	J	0.0675	0.102	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-268-SA6-SB-4.0-5.0	EFH (C15-C20)	J	0.61	1.3	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-229-SA6-SS-0.0-0.5	DELTA-BHC	J	0.12	0.18	PQL	ug/Kg	J (all detects)
SL-234-SA6-SS-0.0-0.5	ALPHA-BHC	J	0.057	0.19	PQL	ug/Kg	J (all detects)
	ENDRIN ALDEHYDE	J	0.096	0.38	PQL	ug/Kg	

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-230-SA6-SB-4.0-5.0	AROCLOR 1260	J	1.6	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.8	3.4	PQL	ug/Kg	
SL-234-SA6-SS-0.0-0.5	AROCLOR 1254	J	0.93	1.9	PQL	ug/Kg	J (all detects)
SL-254-SA6-SB-2.5-3.5	AROCLOR 1260	J	1.1	1.8	PQL	ug/Kg	J (all detects)
SL-268-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.51	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.72	1.8	PQL	ug/Kg	

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-230-SA6-SS-0.0-0.5	2,4-D	J	1.3	3.8	PQL	ug/Kg	J (all detects)
	DICAMBA	J	0.57	1.3	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE263 **Laboratory: LL**

EDD Filename: DE263_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-232-SA6-SS-0.0-0.5	2,4-D	J	1.6	4.1	PQL	ug/Kg	J (all detects)
	DICAMBA	J	0.50	1.4	PQL	ug/Kg	
SL-234-SA6-SS-0.0-0.5	2,4-D	J	2.2	4.0	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-230-SA6-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	20	180	PQL	ug/Kg	J (all detects)
SL-232-SA6-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	34	360	PQL	ug/Kg	J (all detects)
SL-234-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	38	380	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-229-SA6-SB-2.0-3.0	BENZO(A)PYRENE	J	1.3	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.1	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.77	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.0	1.7	PQL	ug/Kg	
SL-229-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	6.7	8.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	34	96	PQL	ug/Kg	
	CHRYSENE	J	1.9	8.9	PQL	ug/Kg	
SL-230-SA6-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	1.4	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.6	19	PQL	ug/Kg	
	CHRYSENE	J	0.41	1.7	PQL	ug/Kg	
SL-230-SA6-SS-0.0-0.5	ANTHRACENE	J	3.7	8.9	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	8.2	8.9	PQL	ug/Kg	
SL-232-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.7	1.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.38	1.9	PQL	ug/Kg	
SL-234-SA6-SS-0.0-0.5	BENZO(A)PYRENE	J	0.92	1.9	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.77	1.9	PQL	ug/Kg	
	CHRYSENE	J	1.6	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.8	1.9	PQL	ug/Kg	
	FLUORENE	J	0.79	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	0.82	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.3	1.9	PQL	ug/Kg	
	PYRENE	J	1.6	1.9	PQL	ug/Kg	
SL-254-SA6-SB-2.5-3.5	BENZO(B)FLUORANTHENE	J	0.93	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	19	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.2	19	PQL	ug/Kg	
	CHRYSENE	J	0.38	1.7	PQL	ug/Kg	
SL-268-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	33	94	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	2.1	8.7	PQL	ug/Kg	

LDC #: 26979A4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1-2012

SDG #: DE263 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: CL

2nd Reviewer: W

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	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ba, Fe, Mg, Mn, Ti, Zn >4X) >RPDout >RPDout
VII.	Duplicate Sample Analysis	SW	DUP
VIII.	Laboratory Control Samples (LCS)	A	LCS/D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	EB=10

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/water

1	SL-229-SA6-SS-0.0-0.5	11	(Al) MS	21		31	
2	SL-230-SA6-SS-0.0-0.5	12	MSD	22		32	
3	SL-234-SA6-SS-0.0-0.5	13	DUP	23		33	
4	SL-232-SA6-SS-0.0-0.5	14		24		34	
5	SL-232-SA6-SB-2.5-3.5	15		25		35	
6	SL-229-SA6-SB-2.0-3.0	16		26		36	
7	SL-230-SA6-SB-4.0-5.0	17		27		37	
8	SL-254-SA6-SB-2.5-3.5	18		28		38	
9	SL-268-SA6-SB-4.0-5.0	19		29		39	
10	EB-SA6-SB-100611 W	20		30		40	

Notes: _____

LDC #: 26979A4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reason: B

Reviewer: 02
2nd Reviewer: L

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 100x, Hg; 167x
Sample Concentration units, unless otherwise noted: ug/L
Associated Samples: All Water

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	10									
Hg			0.063	0.315	0.058									
P			1.8	9	6.8									

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

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	3	4	5	6	8					
Hg			0.042	0.04	0.016	0.013	0.012	0.012	0.014					

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 26979A4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: CR
2nd Reviewer:

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

(Y) N N/A Were field blanks identified in this SDG?

(Y) N N/A Were target analytes detected in the field blanks? Reason: F

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

Sampling date: 10/6/11 Soil factor applied 100x; Hg=167x Sa')

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

Analyte	Blank ID	Sample Identification										
	10	Action Level	2	3	4	5	6	8				
Pb	1.5	0.75										
Hg	0.058	0.04843	0.044	0.016	0.013	0.012	0.012	0.014				
P	6.8	3.4										

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".

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE263
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6431133BKG
% Solids for Duplicate: 93.8
Duplicate Lab Sample ID: 6431133DUP
% Solids for Sample: 93.8
Batch ID(s): P29308D, P28326A, P28308A, P29208D, P28311A
Concentration Units: MG/KG

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			7106.3324		8917.8674		23	*	P
Antimony	121	0.2	0.1600	B	0.2165		30		MS
Arsenic	75		3.6268		6.2972		54	*	MS
Barium	137		50.5931		78.6635		43	*	MS
Beryllium	9	0.1	0.3765		0.5092		30	*	MS
Boron			0.3726	U	0.3726	U			P
[redacted]	111	0.1	0.1267		0.2739		73	*	MS
Calcium			1618.7675		1718.8451		6		P
Chromium	52		13.2320		21.7153		49	*	MS
Cobalt	59		4.1526		11.1205		91	*	MS
Copper	63		6.1337		9.5038		43	*	MS
Iron			17543.0799		14062.8227		22	*	P
Lead	208		8.5826		12.9671		41	*	MS
Lithium			14.8716		16.9075		13		P
Magnesium			3472.5348		3099.4743		11		P
Manganese			245.7366		364.8995		39	*	P
[redacted]			0.0075	U	0.0103	B	200		CV
Molybdenum	98	0.1	0.3076		0.6061		65	*	MS
Nickel	60		8.5888		14.4327		51	*	MS
Phosphorus			304.2830		348.1804		13		P
Potassium			1916.5214		2236.3291		15		P
Selenium	78		0.0739	B	0.0926	B	22		MS
Silver	107		0.0801	B	0.0759	B	5		MS
Sodium			98.9308	B	58.1593	B	52		P
Strontium			13.3428		10.1010		28	*	P
Thallium	203	0.1	0.1551		0.1878		19		MS
Tin			2.1343	B	2.1757	B	2		P
Titanium			642.1388		722.4719		12		P
Vanadium	51		23.4128		34.3635		38	*	MS
Zinc	66		51.6488		80.5680		44	*	MS
Zirconium			1.9759	B	1.5246	B	26		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 - out by difference: 0.2985(≤0.208) :J/UJ

DE263 5624

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE263
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6431133BKG Serial Dilution Lab Sample ID: 6431133L
Batch ID(s): P29308D, P28326A, P28308A, P29208D
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		68657.1200		65506.2000		5		P
Antimony	121	0.7728	B	1.8500	U	100		MS
Arsenic	75	17.5200		16.3750		7		MS
[redacted]	137	244.4000		272.1500		11	E	MS
Beryllium	9	1.8190		2.0150	B	11		MS
Boron		3.6000	U	18.0000	U			P
Cadmium	111	0.6122		1.1000	U	100		MS
Calcium		15639.5600		15536.6500		1		P
[redacted]	52	63.9200		72.0500		13	E	MS
Cobalt	59	20.0600		21.5600		7		MS
Copper	63	29.6300		32.4400		9		MS
Iron		166199.6300		165876.7000		0		P
Lead	208	41.4600		44.8500		8		MS
Lithium		143.6800		151.1500		5		P
Magnesium		32898.1000		34149.5500		4		P
Manganese		2374.1600		2427.9000		2		P
Molybdenum	98	1.4860		1.6905	B	14		MS
Nickel	60	41.4900		45.5500		10		MS
Phosphorus		2939.8000		2881.3500		2		P
Potassium		18516.2800		18839.3000		2		P
Selenium	78	0.3570	B	1.4500	U	100		MS
Silver	107	0.3868	B	0.6025	B	56		MS
Sodium		955.8100	B	683.9500	B	28		P
Strontium		128.9100		123.1000		5		P
Thallium	203	0.7493		0.7500	U	100		MS
Tin		20.6200	B	17.9000	B	13		P
Titanium		6203.9600		6378.5000		3		P
[redacted]	51	113.1000		129.6500		15	E	MS
Zinc	66	249.5000		270.6000		8		MS
Zirconium		19.0900	B	38.6500	B	102		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

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

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ

FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE266

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
11-Oct-2011	TB-101111	6434478	TB	3520C	1625C	III
11-Oct-2011	TB-101111	6434479	TB	3546	1625C	III
11-Oct-2011	TB-101111	6434480	TB	5030B	8015M	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3050B	6010B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3050B	6020	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3060A	7199	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3546	1625C	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8015B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8015M	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8082	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8270C	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8270C SIM	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	5035	8015M	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	8330	8330A	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	300.0	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	314.0	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	7471A	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	8015B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	8015M	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	8315A	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	9012B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0DUP	P434468D270158A	DUP	METHOD	314.0	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0MSD	P434468M322139A	MSD	METHOD	8015B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0MS	P434468R270221A	MS	METHOD	314.0	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0MS	P434468R322123A	MS	METHOD	8015B	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3050B	6010B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3050B	6020	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3060A	7199	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3546	1625C	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8015B	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8015M	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8082	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8270C	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8270C SIM	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	5035	8015M	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	8330	8330A	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	300.0	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	314.0	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	7471A	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	8015B	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	8015M	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	8315A	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	9012B	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3050B	6010B	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3050B	6020	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3060A	7199	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3546	1625C	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8015B	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8015M	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8082	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8270C	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	5035	8015M	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	8330	8330A	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	300.0	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	314.0	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	7471A	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	8015B	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	8015M	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	8315A	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	9012B	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3050B	6010B	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3050B	6020	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3060A	7199	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3546	1625C	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8015B	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8015M	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8082	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8270C	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8270C SIM	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	8330	8330A	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	300.0	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	314.0	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	7471A	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	8015B	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	8015M	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	8315A	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	9012B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3050B	6010B	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3050B	6020	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3060A	7199	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8015B	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8015M	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8082	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8270C	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8270C SIM	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	5035	8015M	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	300.0	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	314.0	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	7471A	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	8015B	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	8015M	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	9012B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3050B	6010B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3050B	6020	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3060A	7199	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3546	1625C	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8015B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8015M	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8082	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8270C	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8270C SIM	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	5035	8015M	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	8330	8330A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	300.0	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	314.0	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	7471A	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	8015B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	8015M	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	8315A	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	9012B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5MSD	P434470M320200A	MSD	METHOD	8015M	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5MS	P434470R320147A	MS	METHOD	8015M	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3050B	6010B	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3050B	6020	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3060A	7199	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3546	1625C	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8015B	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8015M	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8082	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8270C	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8270C SIM	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	5035	8015M	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	8330	8330A	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	300.0	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	314.0	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	7471A	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	8015B	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	8015M	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	8315A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	9012B	III
11-Oct-2011	EB-SA7-SB-101111	6434477	EB	3520C	1625C	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3050B	6010B	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3050B	6020	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3060A	7199	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3550B	8082	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3550B	8270C	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3550B	8270C SIM	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	METHOD	300.0	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	METHOD	314.0	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	METHOD	7471A	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3050B	6010B	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3050B	6020	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3060A	7199	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3546	1625C	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8015B	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8015M	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8082	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8270C	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8270C SIM	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	5035	8015M	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	8330	8330A	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	300.0	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	314.0	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	7471A	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	8015B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	8015M	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	8315A	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	9012B	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0DUP	P434472D272036B	DUP	METHOD	9012B	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0MS	P434472R272037B	MS	METHOD	9012B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory:** LL

EDD Filename: DE266_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-049-SA7-SB-4.0-5.0 *Collected:* 10/11/2011 3:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.92	J	0.83	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5 *Collected:* 10/11/2011 12:32:00 *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

Sample ID: SL-162-SA7-SB-0.0-1.0 *Collected:* 10/11/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.95	J	0.85	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0 *Collected:* 10/11/2011 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	0.95	J	0.83	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.2	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.1	J	0.83	MDL	1.5	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-009-SA3-SB-4.0-5.0 *Collected:* 10/11/2011 3:05:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19800		2.80	MDL	21.5	PQL	mg/Kg	J	E
POTASSIUM	2920		12.1	MDL	53.6	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory:** LL

EDD Filename: DE266_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-009-SA3-SB-4.0-5.0 ***Collected:*** 10/11/2011 3:05:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	4.24	J	0.343	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-009-SA3-SB-4.0-5.0 ***Collected:*** 10/11/2011 3:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.82	J	0.493	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0 ***Collected:*** 10/11/2011 3:25:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	20000		2.61	MDL	20.0	PQL	mg/Kg	J	E
POTASSIUM	2670		11.3	MDL	50.0	PQL	mg/Kg	J	Q
TIN	2.80	J	0.320	MDL	10.0	PQL	mg/Kg	U	B

Sample ID: SL-049-SA7-SB-4.0-5.0 ***Collected:*** 10/11/2011 3:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	77.8	J	5.95	MDL	100	PQL	mg/Kg	J	Z
Zirconium	1.83	J	0.460	MDL	5.00	PQL	mg/Kg	J	Z

Sample ID: SL-147-SA7-SB-1.0-2.0 ***Collected:*** 10/11/2011 11:22:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	18500		2.70	MDL	20.7	PQL	mg/Kg	J	E
POTASSIUM	2180		11.7	MDL	51.8	PQL	mg/Kg	J	Q
TIN	2.81	J	0.332	MDL	10.4	PQL	mg/Kg	U	B

Sample ID: SL-147-SA7-SB-1.0-2.0 ***Collected:*** 10/11/2011 11:22:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	69.6	J	6.17	MDL	104	PQL	mg/Kg	J	Z
Zirconium	1.56	J	0.477	MDL	5.18	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: DE266 **Laboratory:** LL

EDD Filename: DE266_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-155-SA7-SB-1.5-2.5 ***Collected:*** 10/11/2011 12:32:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	23200		2.61	MDL	20.0	PQL	mg/Kg	J	E
POTASSIUM	3360		11.3	MDL	50.1	PQL	mg/Kg	J	Q
TIN	2.87	J	0.321	MDL	10.0	PQL	mg/Kg	U	B

Sample ID: SL-155-SA7-SB-1.5-2.5 ***Collected:*** 10/11/2011 12:32:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	82.9	J	5.96	MDL	100	PQL	mg/Kg	J	Z
Zirconium	1.85	J	0.461	MDL	5.01	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA7-SB-0.0-1.0 ***Collected:*** 10/11/2011 11:15:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19100		2.73	MDL	20.9	PQL	mg/Kg	J	E
POTASSIUM	3120		11.8	MDL	52.3	PQL	mg/Kg	J	Q
TIN	2.93	J	0.335	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-162-SA7-SB-0.0-1.0 ***Collected:*** 10/11/2011 11:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	64.3	J	6.23	MDL	105	PQL	mg/Kg	J	Z
Zirconium	1.88	J	0.481	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0 ***Collected:*** 10/11/2011 10:40:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19400		2.70	MDL	20.7	PQL	mg/Kg	J	E
POTASSIUM	3040		11.7	MDL	51.7	PQL	mg/Kg	J	Q
TIN	2.86	J	0.331	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-166-SA7-SB-1.0-2.0 ***Collected:*** 10/11/2011 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	72.2	J	6.16	MDL	103	PQL	mg/Kg	J	Z
Zirconium	1.89	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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory:** LL

EDD Filename: DE266_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-167-SA7-SB-0.5-1.5 ***Collected:*** 10/11/2011 9:25:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19900		2.69	MDL	20.6	PQL	mg/Kg	J	E
POTASSIUM	2990		11.7	MDL	51.6	PQL	mg/Kg	J	Q
TIN	2.95	J	0.330	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-167-SA7-SB-0.5-1.5 ***Collected:*** 10/11/2011 9:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	64.9	J	6.14	MDL	103	PQL	mg/Kg	J	Z
Zirconium	1.89	J	0.475	MDL	5.16	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA7-SB-0.5-1.5 ***Collected:*** 10/11/2011 1:45:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19100		2.64	MDL	20.2	PQL	mg/Kg	J	E
POTASSIUM	2930		11.4	MDL	50.5	PQL	mg/Kg	J	Q
TIN	2.82	J	0.323	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-168-SA7-SB-0.5-1.5 ***Collected:*** 10/11/2011 1:45:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	63.1	J	6.01	MDL	101	PQL	mg/Kg	J	Z
Zirconium	1.85	J	0.465	MDL	5.05	PQL	mg/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0 ***Collected:*** 10/11/2011 8:47:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	20900		2.80	MDL	21.4	PQL	mg/Kg	J	E
POTASSIUM	2260		12.1	MDL	53.6	PQL	mg/Kg	J	Q
TIN	3.02	J	0.343	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-265-SA6-SB-4.0-5.0 ***Collected:*** 10/11/2011 8:47:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.90	J	0.493	MDL	5.36	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: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-009-SA3-SB-4.0-5.0 *Collected:* 10/11/2011 3:05:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.100	J	0.0622	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA3-SB-4.0-5.0 *Collected:* 10/11/2011 3:05:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.932		0.0536	MDL	0.107	PQL	mg/Kg	J	E

Sample ID: SL-009-SA3-SB-4.0-5.0 *Collected:* 10/11/2011 3:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.298		0.0794	MDL	0.215	PQL	mg/Kg	J	Q
ARSENIC	9.87		0.0858	MDL	0.429	PQL	mg/Kg	J	E
COBALT	6.33		0.0215	MDL	0.107	PQL	mg/Kg	J	Q, E
COPPER	42.8		0.0858	MDL	0.429	PQL	mg/Kg	J	Q, E
NICKEL	23.9		0.107	MDL	0.429	PQL	mg/Kg	J	Q
SILVER	0.217		0.0152	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-049-SA7-SB-4.0-5.0 *Collected:* 10/11/2011 3:25:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.140	J	0.0598	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0 *Collected:* 10/11/2011 3:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.432		0.0515	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-049-SA7-SB-4.0-5.0 *Collected:* 10/11/2011 3:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.142	J	0.0762	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	4.77		0.0824	MDL	0.412	PQL	mg/Kg	J	E
COBALT	6.87		0.0206	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	8.41		0.0824	MDL	0.412	PQL	mg/Kg	J	Q, E
NICKEL	14.2		0.103	MDL	0.412	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: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-049-SA7-SB-4.0-5.0 **Collected:** 10/11/2011 3:25:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0173	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q

Sample ID: SL-147-SA7-SB-1.0-2.0 **Collected:** 10/11/2011 11:22:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.185	J	0.0595	MDL	0.410	PQL	mg/Kg	J	Z

Sample ID: SL-147-SA7-SB-1.0-2.0 **Collected:** 10/11/2011 11:22:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.286		0.0513	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-147-SA7-SB-1.0-2.0 **Collected:** 10/11/2011 11:22:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.152	J	0.0759	MDL	0.205	PQL	mg/Kg	J	Z, Q
ARSENIC	4.03		0.0821	MDL	0.410	PQL	mg/Kg	J	E
COBALT	5.87		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	5.78		0.0821	MDL	0.410	PQL	mg/Kg	J	Q, E
NICKEL	7.57		0.103	MDL	0.410	PQL	mg/Kg	J	Q

Sample ID: SL-155-SA7-SB-1.5-2.5 **Collected:** 10/11/2011 12:32:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.216	J	0.0581	MDL	0.401	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5 **Collected:** 10/11/2011 12:32:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.728		0.0501	MDL	0.100	PQL	mg/Kg	J	E

Sample ID: SL-155-SA7-SB-1.5-2.5 **Collected:** 10/11/2011 12:32:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.146	J	0.0741	MDL	0.200	PQL	mg/Kg	J	Z, Q
ARSENIC	5.28		0.0801	MDL	0.401	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: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-155-SA7-SB-1.5-2.5 **Collected:** 10/11/2011 12:32:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	9.38		0.0200	MDL	0.100	PQL	mg/Kg	J	Q, E
COPPER	10.7		0.0801	MDL	0.401	PQL	mg/Kg	J	Q, E
NICKEL	19.8		0.100	MDL	0.401	PQL	mg/Kg	J	Q
SILVER	0.0252	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q

Sample ID: SL-162-SA7-SB-0.0-1.0 **Collected:** 10/11/2011 11:15:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0595	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA7-SB-0.0-1.0 **Collected:** 10/11/2011 11:15:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.424		0.0513	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-162-SA7-SB-0.0-1.0 **Collected:** 10/11/2011 11:15:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.135	J	0.0759	MDL	0.205	PQL	mg/Kg	J	Z, Q
ARSENIC	4.37		0.0821	MDL	0.411	PQL	mg/Kg	J	E
COBALT	6.40		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	8.65		0.0821	MDL	0.411	PQL	mg/Kg	J	Q, E
NICKEL	12.9		0.103	MDL	0.411	PQL	mg/Kg	J	Q
SILVER	0.0222	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q

Sample ID: SL-166-SA7-SB-1.0-2.0 **Collected:** 10/11/2011 10:40:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.112	J	0.0600	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0 **Collected:** 10/11/2011 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
MOLYBDENUM	0.408		0.0517	MDL	0.103	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: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-166-SA7-SB-1.0-2.0 *Collected:* 10/11/2011 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	0.168	J	0.0766	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	4.64		0.0828	MDL	0.414	PQL	mg/Kg	J	E
COBALT	6.26		0.0207	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	8.59		0.0828	MDL	0.414	PQL	mg/Kg	J	Q, E
NICKEL	12.7		0.103	MDL	0.414	PQL	mg/Kg	J	Q
SILVER	0.0263	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z, Q

Sample ID: SL-167-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 9:25:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.101	J	0.0593	MDL	0.409	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 9:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.434		0.0511	MDL	0.102	PQL	mg/Kg	J	E

Sample ID: SL-167-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 9:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.163	J	0.0756	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	4.78		0.0818	MDL	0.409	PQL	mg/Kg	J	E
COBALT	6.74		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, E
COPPER	8.76		0.0818	MDL	0.409	PQL	mg/Kg	J	Q, E
NICKEL	13.4		0.102	MDL	0.409	PQL	mg/Kg	J	Q
SILVER	0.0378	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q

Sample ID: SL-168-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 1:45:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0808	J	0.0592	MDL	0.408	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: DE266 Laboratory: LL

EDD Filename: DE266_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-168-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 1:45:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.320		0.0510	MDL	0.102	PQL	mg/Kg	J	E

Sample ID: SL-168-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 1:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0933	J	0.0755	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	3.49		0.0816	MDL	0.408	PQL	mg/Kg	J	E
COBALT	5.04		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, E
COPPER	6.34		0.0816	MDL	0.408	PQL	mg/Kg	J	Q, E
NICKEL	9.62		0.102	MDL	0.408	PQL	mg/Kg	J	Q
SILVER	0.0234	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0999	J	0.0621	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.500		0.0536	MDL	0.107	PQL	mg/Kg	J	E

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.182	J	0.0793	MDL	0.214	PQL	mg/Kg	J	Z, Q
ARSENIC	5.19		0.0857	MDL	0.429	PQL	mg/Kg	J	E
CADMIUM	0.103	J	0.0471	MDL	0.107	PQL	mg/Kg	J	Z
COBALT	5.62		0.0214	MDL	0.107	PQL	mg/Kg	J	Q, E
COPPER	8.96		0.0857	MDL	0.429	PQL	mg/Kg	J	Q, E
NICKEL	14.8		0.107	MDL	0.429	PQL	mg/Kg	J	Q
SILVER	0.0402	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory:** LL

EDD Filename: DE266_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-009-SA3-SB-4.0-5.0 **Collected:** 10/11/2011 3:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0 **Collected:** 10/11/2011 3:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.64	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5 **Collected:** 10/11/2011 12:32:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.22	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA7-SB-0.0-1.0 **Collected:** 10/11/2011 11:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-009-SA3-SB-4.0-5.0 **Collected:** 10/11/2011 3:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0712	J	0.0077	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0 **Collected:** 10/11/2011 3:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0087	J	0.0070	MDL	0.0988	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5 **Collected:** 10/11/2011 12:32:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0073	J	0.0070	MDL	0.0992	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: DE266 **Laboratory:** LL

EDD Filename: DE266_v1. **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-162-SA7-SB-0.0-1.0 *Collected:* 10/11/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0085	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0 *Collected:* 10/11/2011 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	0.0099	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

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

Sample ID: EB-SA7-SB-101111 *Collected:* 10/11/2011 2:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	3.07		0.483	MDL	0.965	PQL	ng/L	UJ	B, S, T

Sample ID: TB-101111 *Collected:* 10/11/2011 8:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.16		0.499	MDL	0.997	PQL	ng/L	UJ	B, S

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

Sample ID: SL-155-SA7-SB-1.5-2.5 *Collected:* 10/11/2011 12:32:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	22.2	J	17.2	MDL	34.4	PQL	ng/Kg	J	Z

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

Sample ID: SL-049-SA7-SB-4.0-5.0 *Collected:* 10/11/2011 3:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	1.0	J	0.42	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory:** LL

EDD Filename: DE266_v1. **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-155-SA7-SB-1.5-2.5 **Collected:** 10/11/2011 12:32:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q
Propylene glycol	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: SL-155-SA7-SB-1.5-2.5 **Collected:** 10/11/2011 12:32:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	1.0	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5 **Collected:** 10/11/2011 9:25:00 **Analysis Type:** REA2 **Dilution:** 26.04

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.9	J	0.2	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0 **Collected:** 10/11/2011 8:47:00 **Analysis Type:** REA2 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHYLENE GLYCOL	5.5	J	5.5	MDL	11	PQL	mg/Kg	J	Z

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

Sample ID: SL-162-SA7-SB-0.0-1.0 **Collected:** 10/11/2011 11:15:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.3	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5 **Collected:** 10/11/2011 9:25:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	0.48	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	2.0	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-168-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.1	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *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	0.89	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-009-SA3-SB-4.0-5.0 *Collected:* 10/11/2011 3:05:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-049-SA7-SB-4.0-5.0 *Collected:* 10/11/2011 3:25:00 *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-147-SA7-SB-1.0-2.0 *Collected:* 10/11/2011 11:22:00 *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-155-SA7-SB-1.5-2.5 *Collected:* 10/11/2011 12:32:00 *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	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-162-SA7-SB-0.0-1.0 *Collected:* 10/11/2011 11:15:00 *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	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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory:** LL

EDD Filename: DE266_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-166-SA7-SB-1.0-2.0 ***Collected:*** 10/11/2011 10:40:00 ***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	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BENZO(A)ANTHRACENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	25	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	35	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	19	J	17	MDL	170	PQL	ug/Kg	J	Z
CHRYSENE	30	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	55	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	44	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5 ***Collected:*** 10/11/2011 9:25:00 ***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	520	PQL	ug/Kg	UJ	L
ACENAPHTHENE	57	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	24	J	17	MDL	350	PQL	ug/Kg	J	Z
DIBENZOFURAN	53	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORENE	58	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENOL	19	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-168-SA7-SB-0.5-1.5 ***Collected:*** 10/11/2011 1:45:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZO(A)ANTHRACENE	38	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	49	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	65	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	47	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	30	J	17	MDL	340	PQL	ug/Kg	J	Z
CHRYSENE	45	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	94	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	40	J	17	MDL	170	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-168-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENANTHRENE	49	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	80	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *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

Method Category: SVOA

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

Sample ID: SL-009-SA3-SB-4.0-5.0 *Collected:* 10/11/2011 3:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.0	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0 *Collected:* 10/11/2011 3:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	1.2	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.75	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-147-SA7-SB-1.0-2.0 *Collected:* 10/11/2011 11:22:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.4	MDL	19	PQL	ug/Kg	J	Z
NAPHTHALENE	0.79	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5 *Collected:* 10/11/2011 12:32:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	15	J	6.3	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-162-SA7-SB-0.0-1.0 *Collected:* 10/11/2011 11:15:00 *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	6.2	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	7.6	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	4.2	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	78	J	32	MDL	95	PQL	ug/Kg	J	Z
Butylbenzylphthalate	58	J	32	MDL	95	PQL	ug/Kg	J	Z
CHRYSENE	6.9	J	1.8	MDL	8.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	3.8	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
PHENANTHRENE	5.2	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0 *Collected:* 10/11/2011 10:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	2.9	J	1.7	MDL	8.7	PQL	ug/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *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	6.7	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	0.72	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	110	U	110	MDL	550	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE266

Method Blank Outlier Report

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWH28B261523	10/17/2011 3:23:00 PM	N-NITROSODIMETHYLAMINE	1.14 ng/L	EB-SA7-SB-101111 TB-101111

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101111(RES)	N-NITROSODIMETHYLAMINE	3.07 ng/L	3.07U ng/L
TB-101111(RES)	N-NITROSODIMETHYLAMINE	1.16 ng/L	1.16U ng/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28508AB220113	10/20/2011 1:13:00 AM	BORON PHOSPHORUS STRONTIUM	0.599 mg/Kg 1.39 mg/Kg 0.0750 mg/Kg	SL-009-SA3-SB-4.0-5.0 SL-049-SA7-SB-4.0-5.0 SL-147-SA7-SB-1.0-2.0 SL-155-SA7-SB-1.5-2.5 SL-162-SA7-SB-0.0-1.0 SL-166-SA7-SB-1.0-2.0 SL-167-SA7-SB-0.5-1.5 SL-168-SA7-SB-0.5-1.5 SL-265-SA6-SB-4.0-5.0
P28508AB220332	10/21/2011 3:32:00 AM	CALCIUM IRON MAGNESIUM TIN	13.1 mg/Kg 2.73 mg/Kg 0.891 mg/Kg 1.44 mg/Kg	SL-009-SA3-SB-4.0-5.0 SL-049-SA7-SB-4.0-5.0 SL-147-SA7-SB-1.0-2.0 SL-155-SA7-SB-1.5-2.5 SL-162-SA7-SB-0.0-1.0 SL-166-SA7-SB-1.0-2.0 SL-167-SA7-SB-0.5-1.5 SL-168-SA7-SB-0.5-1.5 SL-265-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-009-SA3-SB-4.0-5.0(REA)	TIN	4.24 mg/Kg	4.24U mg/Kg
SL-049-SA7-SB-4.0-5.0(REA)	TIN	2.80 mg/Kg	2.80U mg/Kg
SL-147-SA7-SB-1.0-2.0(REA)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-155-SA7-SB-1.5-2.5(REA)	TIN	2.87 mg/Kg	2.87U mg/Kg
SL-162-SA7-SB-0.0-1.0(REA)	TIN	2.93 mg/Kg	2.93U mg/Kg
SL-166-SA7-SB-1.0-2.0(REA)	TIN	2.86 mg/Kg	2.86U mg/Kg
SL-167-SA7-SB-0.5-1.5(REA)	TIN	2.95 mg/Kg	2.95U mg/Kg
SL-168-SA7-SB-0.5-1.5(REA)	TIN	2.82 mg/Kg	2.82U mg/Kg
SL-265-SA6-SB-4.0-5.0(REA)	TIN	3.02 mg/Kg	3.02U mg/Kg

Trip Blank Outlier Report

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1625C**
Matrix: **AQ**

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-101111(RES)	10/11/2011 8:00:00 AM	N-NITROSODIMETHYLAMINE	1.16 ng/L	EB-SA7-SB-101111 SL-009-SA3-SB-4.0-5.0 SL-049-SA7-SB-4.0-5.0 SL-147-SA7-SB-1.0-2.0 SL-155-SA7-SB-1.5-2.5 SL-162-SA7-SB-0.0-1.0 SL-166-SA7-SB-1.0-2.0 SL-167-SA7-SB-0.5-1.5 SL-168-SA7-SB-0.5-1.5 SL-265-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
EB-SA7-SB-101111(RES)	N-NITROSODIMETHYLAMINE	3.07 ng/L	3.07U ng/L

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-265-SA6-SB-4.0-5.0MSD (SL-265-SA6-SB-4.0-5.0)	Isopropanol METHANOL	- -	- -	12.00-149.00 43.00-138.00	51 (20.00) 49 (20.00)	Isopropanol METHANOL	J (all detects)
SL-265-SA6-SB-4.0-5.0MS **SL-265-SA6-SB-4.0-5.0MSD** (SL-265-SA6-SB-4.0-5.0)	ETHANOL	43	-	48.00-130.00	48 (20.00)	ETHANOL	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-155-SA7-SB-1.5-2.5MS **SL-155-SA7-SB-1.5-2.5MSD** (SL-155-SA7-SB-1.5-2.5)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	9 43 52	8 42 50	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)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_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
P28526AQ220817A (SL-009-SA3-SB-4.0-5.0 SL -049-SA7-SB-4.0-5.0 SL -147-SA7-SB-1.0-2.0 SL -155-SA7-SB-1.5-2.5 SL -162-SA7-SB-0.0-1.0 SL -166-SA7-SB-1.0-2.0 SL -167-SA7-SB-0.5-1.5 SL -168-SA7-SB-0.5-1.5 SL -265-SA6-SB-4.0-5.0)	ANTIMONY	139	-	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
P0LELCSQ260920 (SL-009-SA3-SB-4.0-5.0 SL -049-SA7-SB-4.0-5.0 SL -147-SA7-SB-1.0-2.0 SL -155-SA7-SB-1.5-2.5 SL -162-SA7-SB-0.0-1.0 SL -166-SA7-SB-1.0-2.0 SL -167-SA7-SB-0.5-1.5 SL -168-SA7-SB-0.5-1.5 SL -265-SA6-SB-4.0-5.0)	2-METHYLPHENOL	116	-	66.00-110.00	-	2-METHYLPHENOL	J(all detects)
	BENZYL ALCOHOL	113	-	68.00-111.00	-	BENZYL ALCOHOL	
	BIS(2-CHLOROETHYL) ETHER	107	-	70.00-104.00	-	BIS(2-CHLOROETHYL) ETHER	
	N-NITROSO-DI-N-PROPYLAMIN	109	-	63.00-107.00	-	N-NITROSO-DI-N-PROPYLAMI	
P0LELCSQ260920 (SL-009-SA3-SB-4.0-5.0 SL -049-SA7-SB-4.0-5.0 SL -147-SA7-SB-1.0-2.0 SL -155-SA7-SB-1.5-2.5 SL -162-SA7-SB-0.0-1.0 SL -166-SA7-SB-1.0-2.0 SL -167-SA7-SB-0.5-1.5 SL -168-SA7-SB-0.5-1.5 SL -265-SA6-SB-4.0-5.0)	4,6-DINITRO-2-METHYLPHENOL	41	-	46.00-120.00	-	4,6-DINITRO-2-METHYLPHEN	J(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA7-SB-101111	N-Nitrosodimethylamine-d6	320	50.00-150.00	All Target Analytes	J (all detects)
TB-101111	N-Nitrosodimethylamine-d6	171	50.00-150.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-155-SA7-SB-1.5-2.5	N-NITROSODIMETHYLAMINE	J	22.2	34.4	PQL	ng/Kg	J (all detects)

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-049-SA7-SB-4.0-5.0	Nitrate-NO3	J	0.92	1.6	PQL	mg/Kg	J (all detects)
SL-155-SA7-SB-1.5-2.5	Nitrate-NO3	J	1.3	1.6	PQL	mg/Kg	J (all detects)
SL-162-SA7-SB-0.0-1.0	Nitrate-NO3	J	0.95	1.6	PQL	mg/Kg	J (all detects)
SL-166-SA7-SB-1.0-2.0	Nitrate-NO3	J	0.95	1.6	PQL	mg/Kg	J (all detects)
SL-167-SA7-SB-0.5-1.5	Nitrate-NO3	J	1.2	1.6	PQL	mg/Kg	J (all detects)
SL-168-SA7-SB-0.5-1.5	Nitrate-NO3	J	1.1	1.5	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA3-SB-4.0-5.0	TIN	J	4.24	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.82	5.36	PQL	mg/Kg	
SL-049-SA7-SB-4.0-5.0	SODIUM	J	77.8	100	PQL	mg/Kg	J (all detects)
	TIN	J	2.80	10.0	PQL	mg/Kg	
	Zirconium	J	1.83	5.00	PQL	mg/Kg	
SL-147-SA7-SB-1.0-2.0	SODIUM	J	69.6	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.81	10.4	PQL	mg/Kg	
	Zirconium	J	1.56	5.18	PQL	mg/Kg	
SL-155-SA7-SB-1.5-2.5	SODIUM	J	82.9	100	PQL	mg/Kg	J (all detects)
	TIN	J	2.87	10.0	PQL	mg/Kg	
	Zirconium	J	1.85	5.01	PQL	mg/Kg	
SL-162-SA7-SB-0.0-1.0	SODIUM	J	64.3	105	PQL	mg/Kg	J (all detects)
	TIN	J	2.93	10.5	PQL	mg/Kg	
	Zirconium	J	1.88	5.23	PQL	mg/Kg	
SL-166-SA7-SB-1.0-2.0	SODIUM	J	72.2	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.86	10.3	PQL	mg/Kg	
	Zirconium	J	1.89	5.17	PQL	mg/Kg	
SL-167-SA7-SB-0.5-1.5	SODIUM	J	64.9	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.95	10.3	PQL	mg/Kg	
	Zirconium	J	1.89	5.16	PQL	mg/Kg	
SL-168-SA7-SB-0.5-1.5	SODIUM	J	63.1	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.82	10.1	PQL	mg/Kg	
	Zirconium	J	1.85	5.05	PQL	mg/Kg	
SL-265-SA6-SB-4.0-5.0	TIN	J	3.02	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.90	5.36	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA3-SB-4.0-5.0	SELENIUM	J	0.100	0.429	PQL	mg/Kg	J (all detects)
SL-049-SA7-SB-4.0-5.0	ANTIMONY	J	0.142	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.140	0.412	PQL	mg/Kg	
	SILVER	J	0.0173	0.103	PQL	mg/Kg	
SL-147-SA7-SB-1.0-2.0	ANTIMONY	J	0.152	0.205	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.185	0.410	PQL	mg/Kg	
SL-155-SA7-SB-1.5-2.5	ANTIMONY	J	0.146	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.216	0.401	PQL	mg/Kg	
	SILVER	J	0.0252	0.100	PQL	mg/Kg	
SL-162-SA7-SB-0.0-1.0	ANTIMONY	J	0.135	0.205	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.121	0.411	PQL	mg/Kg	
	SILVER	J	0.0222	0.103	PQL	mg/Kg	
SL-166-SA7-SB-1.0-2.0	ANTIMONY	J	0.168	0.207	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.112	0.414	PQL	mg/Kg	
	SILVER	J	0.0263	0.103	PQL	mg/Kg	
SL-167-SA7-SB-0.5-1.5	ANTIMONY	J	0.163	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.101	0.409	PQL	mg/Kg	
	SILVER	J	0.0378	0.102	PQL	mg/Kg	
SL-168-SA7-SB-0.5-1.5	ANTIMONY	J	0.0933	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0808	0.408	PQL	mg/Kg	
	SILVER	J	0.0234	0.102	PQL	mg/Kg	
SL-265-SA6-SB-4.0-5.0	ANTIMONY	J	0.182	0.214	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.103	0.107	PQL	mg/Kg	
	SELENIUM	J	0.0999	0.429	PQL	mg/Kg	
	SILVER	J	0.0402	0.107	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA3-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.27	1.1	PQL	mg/Kg	J (all detects)
SL-049-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.64	1.0	PQL	mg/Kg	J (all detects)
SL-155-SA7-SB-1.5-2.5	HEXAVALENT CHROMIUM	J	0.22	1.1	PQL	mg/Kg	J (all detects)
SL-162-SA7-SB-0.0-1.0	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
SL-009-SA3-SB-4.0-5.0	MERCURY	J	0.0712	0.109	PQL	mg/Kg	J (all detects)
SL-049-SA7-SB-4.0-5.0	MERCURY	J	0.0087	0.0988	PQL	mg/Kg	J (all detects)
SL-155-SA7-SB-1.5-2.5	MERCURY	J	0.0073	0.0992	PQL	mg/Kg	J (all detects)
SL-162-SA7-SB-0.0-1.0	MERCURY	J	0.0085	0.104	PQL	mg/Kg	J (all detects)
SL-166-SA7-SB-1.0-2.0	MERCURY	J	0.0099	0.102	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-049-SA7-SB-4.0-5.0	EFH (C15-C20)	J	1.0	1.2	PQL	mg/Kg	J (all detects)
SL-155-SA7-SB-1.5-2.5	EFH (C30-C40)	J	1.0	1.3	PQL	mg/Kg	J (all detects)
SL-167-SA7-SB-0.5-1.5	GASOLINE RANGE ORGANICS (C5-C12)	J	0.9	1.1	PQL	mg/Kg	J (all detects)
SL-265-SA6-SB-4.0-5.0	ETHYLENE GLYCOL	J	5.5	11	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-162-SA7-SB-0.0-1.0	AROCLOR 1260	J	1.3	1.8	PQL	ug/Kg	J (all detects)
SL-167-SA7-SB-0.5-1.5	AROCLOR 1248	J	0.48	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	2.0	3.5	PQL	ug/Kg	
SL-168-SA7-SB-0.5-1.5	Aroclor 5460	J	2.1	3.4	PQL	ug/Kg	J (all detects)
SL-265-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.89	1.9	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-166-SA7-SB-1.0-2.0	BENZO(A)ANTHRACENE	J	27	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	25	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	35	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	18	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	19	170	PQL	ug/Kg	
	CHRYSENE	J	30	170	PQL	ug/Kg	
	FLUORANTHENE	J	55	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	18	170	PQL	ug/Kg	
	PHENANTHRENE	J	27	170	PQL	ug/Kg	
	PYRENE	J	44	170	PQL	ug/Kg	
SL-167-SA7-SB-0.5-1.5	ACENAPHTHENE	J	57	170	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	24	350	PQL	ug/Kg	
	DIBENZOFURAN	J	53	170	PQL	ug/Kg	
	FLUORENE	J	58	170	PQL	ug/Kg	
	PHENOL	J	19	170	PQL	ug/Kg	
SL-168-SA7-SB-0.5-1.5	BENZO(A)ANTHRACENE	J	38	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	49	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	65	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	47	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	27	170	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	30	340	PQL	ug/Kg	
	CHRYSENE	J	45	170	PQL	ug/Kg	
	FLUORANTHENE	J	94	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	40	170	PQL	ug/Kg	
	PHENANTHRENE	J	49	170	PQL	ug/Kg	
	PYRENE	J	80	170	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA3-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	20	PQL	ug/Kg	J (all detects)
SL-049-SA7-SB-4.0-5.0	CHRYSENE	J	1.2	1.7	PQL	ug/Kg	J (all detects)
	PYRENE	J	0.75	1.7	PQL	ug/Kg	
SL-147-SA7-SB-1.0-2.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	19	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	0.79	1.8	PQL	ug/Kg	
SL-155-SA7-SB-1.5-2.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	15	19	PQL	ug/Kg	J (all detects)
SL-162-SA7-SB-0.0-1.0	BENZO(A)ANTHRACENE	J	6.2	8.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	7.6	8.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	4.2	8.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	78	95	PQL	ug/Kg	
	Butylbenzylphthalate	J	58	95	PQL	ug/Kg	
	CHRYSENE	J	6.9	8.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	3.8	8.8	PQL	ug/Kg	
	PHENANTHRENE	J	5.2	8.8	PQL	ug/Kg	
SL-166-SA7-SB-1.0-2.0	ANTHRACENE	J	2.9	8.7	PQL	ug/Kg	J (all detects)
SL-265-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.7	20	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.72	1.8	PQL	ug/Kg	

LDC #: 26923C4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/6/17
SDG #: DE266 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
2nd Reviewer:

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	No qual by ICB/CCB
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	MS 65
VII.	Duplicate Sample Analysis	SW	
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-265-SA6-SB-4.0-5.0	11		21		31	
2	SL-147-SA7-SB-1.0-2.0	12		22		32	
3	SL-155-SA7-SB-1.5-2.5	13		23		33	
4	SL-009-SA7-SB-4.0-5.0	14		24		34	
5	SL-049-SA7-SB-4.0-5.0	15		25		35	
6	SL-162-SA7-SB-0.0-1.0	16		26		36	
7	SL-166-SA7-SB-1.0-2.0	17		27		37	
8	SL-167-SA7-SB-0.5-1.5	18		28		38	
9	SL-168-SA7-SB-0.5-1.5	19		29		39	
10		20		30		40	

Notes:

SAMPLE DELIVERY GROUP

DE290

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-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	3050B	6010B	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	3050B	6020	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	3060A	7199	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	3550B	8015B	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	3550B	8015M	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	3550B	8081A	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	3550B	8082	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	3550B	8151A	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	3550B	8270C	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	3550B	8270C SIM	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	METHOD	300.0	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	METHOD	314.0	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	METHOD	7471A	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	METHOD	8015B	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	METHOD	8015M	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	METHOD	9012B	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	3050B	6010B	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	3050B	6020	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	3060A	7199	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	3546	1625C	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	3550B	8015B	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	3550B	8015M	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	3550B	8082	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	3550B	8270C	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	3550B	8270C SIM	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	5035	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	5035	8260B	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	5035	8260B SIM	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	8330	8330A	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	METHOD	300.0	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	METHOD	314.0	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	METHOD	7471A	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	METHOD	8015B	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	METHOD	8015M	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	METHOD	8315A	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	METHOD	9012B	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0MSD	P487626M240125A	MSD	8330	8330A	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0MSD	P487626M241736A	MSD	METHOD	8315A	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0MSD	P487626M261437	MSD	3546	1625C	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0MS	P487626R240043A	MS	8330	8330A	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0MS	P487626R241727A	MS	METHOD	8315A	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0MS	P487626R261418	MS	3546	1625C	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	3050B	6010B	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	3050B	6020	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	3060A	7199	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	3546	1625C	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	3550B	8015B	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	3550B	8015M	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	3550B	8082	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	3550B	8270C	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	3550B	8270C SIM	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	5035	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	5035	8260B	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	5035	8260B SIM	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	8330	8330A	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	METHOD	300.0	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	METHOD	314.0	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	METHOD	7471A	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	METHOD	8015B	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	METHOD	8015M	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	METHOD	8315A	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	METHOD	9012B	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0DUP	P487627D220405	DUP	3050B	6010B	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0MSD	P487627M220414	MSD	3050B	6010B	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0MS	P487627R220409	MS	3050B	6010B	III
30-Nov-2011	TB-113011	6487646	TB	3546	1625C	III
30-Nov-2011	TB-113011	6487647	TB	3520C	1625C	III
30-Nov-2011	TB-113011	6487648	TB	5030B	8015M	III
30-Nov-2011	TB-113011	6487648	TB	5030B	8260B	III
30-Nov-2011	TB-113011	6487648	TB	5030B	8260B SIM	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	3050B	6010B	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	3050B	6020	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	3060A	7199	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	3550B	8015B	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	3550B	8015M	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	3550B	8081A	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	3550B	8082	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	3550B	8151A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	3550B	8270C	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	METHOD	300.0	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	METHOD	314.0	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	METHOD	7471A	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	METHOD	8015B	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	METHOD	8015M	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	METHOD	9012B	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5DUP	P487640D270958B	DUP	METHOD	300.0	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5DUP	P487640D271829B	DUP	METHOD	9012B	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5MSD	P487640M241515A	MSD	3550B	8082	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5MS	P487640R241456A	MS	3550B	8082	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5MS	P487640R271011B	MS	METHOD	300.0	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5MS	P487640R271830B	MS	METHOD	9012B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	3050B	6010B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	3050B	6020	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	3060A	7199	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	3550B	8015B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	3550B	8015M	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	3550B	8081A	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	3550B	8082	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	3550B	8151A	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	3550B	8270C	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	METHOD	300.0	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	METHOD	314.0	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	METHOD	7471A	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	METHOD	8015B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	METHOD	8015M	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	METHOD	9012B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	3050B	6010B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	3050B	6020	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	3060A	7199	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	3550B	8015B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	3550B	8015M	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	3550B	8081A	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	3550B	8082	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	3550B	8151A	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	3550B	8270C	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	METHOD	300.0	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	METHOD	314.0	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	METHOD	7471A	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	METHOD	8015B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	METHOD	8015M	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	METHOD	9012B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	6487632	MSD	3050B	6010B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	6487632	MSD	3050B	6020	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	6487632	MSD	3550B	8015B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	6487632	MSD	3550B	8015M	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	6487632	MSD	3550B	8081A	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	6487632	MSD	3550B	8082	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	6487632	MSD	3550B	8151A	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	6487632	MSD	3550B	8270C	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	6487632	MSD	METHOD	7471A	III

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IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	6487632	MSD	METHOD	8015B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	6487632	MSD	METHOD	8015M	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5DUP	6487633	DUP	3050B	6010B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5DUP	6487633	DUP	3050B	6020	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5DUP	6487633	DUP	3060A	7199	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5DUP	6487633	DUP	METHOD	300.0	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5DUP	6487633	DUP	METHOD	314.0	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5DUP	6487633	DUP	METHOD	7471A	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5DUP	6487633	DUP	METHOD	9012B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	P487630M260855	MSD	3550B	8270C SIM	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	P487630R260824	MS	3550B	8270C SIM	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	3050B	6010B	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	3050B	6020	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	3060A	7199	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	3550B	8015B	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	3550B	8015M	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	3550B	8082	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	3550B	8270C	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	3550B	8270C SIM	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	5035	8015M	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	METHOD	300.0	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	METHOD	314.0	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	METHOD	7471A	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	METHOD	8015B	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	METHOD	8015M	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	METHOD	9012B	III

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IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Nov-2011	SL-284-SA6-SB-4.0-5.0DUP	P487641D272050B	DUP	METHOD	314.0	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0MS	P487641R272138B	MS	METHOD	314.0	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	3050B	6010B	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	3050B	6020	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	3060A	7199	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	3550B	8015B	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	3550B	8015M	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	3550B	8082	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	3550B	8270C	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	3550B	8270C SIM	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	5035	8015M	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	METHOD	300.0	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	METHOD	314.0	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	METHOD	7471A	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	METHOD	8015B	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	METHOD	8015M	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	METHOD	9012B	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	3050B	6010B	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	3050B	6020	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	3060A	7199	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	3550B	8015B	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	3550B	8015M	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	3550B	8082	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	3550B	8270C	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	3550B	8270C SIM	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	5035	8015M	III

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IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	METHOD	300.0	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	METHOD	314.0	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	METHOD	7471A	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	METHOD	8015B	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	METHOD	8015M	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	METHOD	9012B	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	3050B	6010B	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	3050B	6020	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	3060A	7199	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	3550B	8015B	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	3550B	8015M	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	3550B	8082	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	3550B	8270C	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	3550B	8270C SIM	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	5035	8015M	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	METHOD	300.0	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	METHOD	314.0	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	METHOD	7471A	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	METHOD	8015B	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	METHOD	8015M	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	METHOD	9012B	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	3050B	6010B	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	3050B	6020	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	3060A	7199	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	3550B	8015B	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	3550B	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	3550B	8081A	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	3550B	8082	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	3550B	8151A	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	3550B	8270C	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	3550B	8270C SIM	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	METHOD	300.0	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	METHOD	314.0	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	METHOD	7471A	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	METHOD	8015B	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	METHOD	8015M	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	METHOD	9012B	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	3050B	6010B	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	3050B	6020	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	3060A	7199	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	3550B	8015B	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	3550B	8015M	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	3550B	8082	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	3550B	8270C	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	3550B	8270C SIM	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	5035	8015M	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	METHOD	300.0	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	METHOD	314.0	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	METHOD	7471A	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	METHOD	8015B	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	METHOD	8015M	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	METHOD	9012B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	3050B	6010B	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	3050B	6020	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	3060A	7199	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	3550B	8015B	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	3550B	8015M	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	3550B	8082	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	3550B	8270C	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	3550B	8270C SIM	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	5035	8015M	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	METHOD	300.0	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	METHOD	314.0	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	METHOD	7471A	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	METHOD	8015B	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	METHOD	8015M	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	METHOD	9012B	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	3050B	6010B	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	3050B	6020	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	3060A	7199	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	3550B	8015B	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	3550B	8015M	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	3550B	8082	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	3550B	8270C	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	5035	8015M	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	METHOD	300.0	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	METHOD	314.0	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	METHOD	8015B	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	METHOD	8015M	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	METHOD	9012B	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	3050B	6010B	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	3050B	6020	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	3060A	7199	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	3546	1625C	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	3550B	8015B	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	3550B	8015M	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	3550B	8082	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	3550B	8270C	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	3550B	8270C SIM	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	5035	8015M	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	8330	8330A	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	METHOD	300.0	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	METHOD	314.0	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	METHOD	7471A	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	METHOD	8015B	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	METHOD	8015M	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	METHOD	8315A	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	METHOD	9012B	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	3050B	6010B	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	3050B	6020	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	3060A	7199	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	3550B	8015B	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	3550B	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	3550B	8082	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	3550B	8270C	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	3550B	8270C SIM	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	5035	8015M	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	METHOD	300.0	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	METHOD	314.0	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	METHOD	7471A	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	METHOD	8015B	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	METHOD	8015M	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	METHOD	9012B	III
30-Nov-2011	EB-SA6-SB-113011	6487645	EB	3520C	1625C	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-284-SA6-SB-14.0-15.0 **Collected:** 11/30/2011 10:50:00 **Analysis Type:** RES **Dilution:** 1

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

Sample ID: SL-284-SA6-SB-15.5-16.5 **Collected:** 11/30/2011 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	1.1	J	0.92	MDL	1.2	PQL	mg/Kg	J	Z, Q

Sample ID: SL-284-SA6-SB-4.0-5.0 **Collected:** 11/30/2011 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
FLUORIDE	3.9		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-284-SA6-SB-9.0-10.0 **Collected:** 11/30/2011 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
FLUORIDE	0.84	U	0.84	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-284-SA6-SS-0.0-0.5 **Collected:** 11/30/2011 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	2.6		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-282-SA6-SB-2.5-3.5 **Collected:** 11/30/2011 3:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	541		0.392	MDL	11.2	PQL	mg/Kg	J	Q
TIN	3.51	J	0.358	MDL	11.2	PQL	mg/Kg	U	B

Sample ID: SL-282-SA6-SS-0.0-0.5 **Collected:** 11/30/2011 12:35:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	4.47	J	0.479	MDL	5.20	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: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-282-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	503		0.364	MDL	10.4	PQL	mg/Kg	J	Q
TIN	2.65	J	0.333	MDL	10.4	PQL	mg/Kg	U	B

Sample ID: SL-283-SA6-SB-14.0-15.0 *Collected:* 11/30/2011 1:20:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.66	J	0.495	MDL	5.38	PQL	mg/Kg	J	Z

Sample ID: SL-283-SA6-SB-14.0-15.0 *Collected:* 11/30/2011 1:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.22	J	0.387	MDL	5.38	PQL	mg/Kg	J	Z
PHOSPHORUS	150		0.377	MDL	10.8	PQL	mg/Kg	J	Q
SODIUM	85.9	J	6.40	MDL	108	PQL	mg/Kg	J	Z
TIN	2.70	J	0.344	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-283-SA6-SB-18.0-19.0 *Collected:* 11/30/2011 1:25:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	4.38	J	0.503	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-283-SA6-SB-18.0-19.0 *Collected:* 11/30/2011 1:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.19	J	0.394	MDL	5.47	PQL	mg/Kg	J	Z
PHOSPHORUS	348		0.383	MDL	10.9	PQL	mg/Kg	J	Q
TIN	2.82	J	0.350	MDL	10.9	PQL	mg/Kg	U	B

Sample ID: SL-283-SA6-SB-4.0-5.0 *Collected:* 11/30/2011 1:10:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	4.28	J	0.475	MDL	5.16	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: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-283-SA6-SB-4.0-5.0 *Collected:* 11/30/2011 1:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	391		0.361	MDL	10.3	PQL	mg/Kg	J	Q
TIN	2.61	J	0.330	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-283-SA6-SB-9.0-10.0 *Collected:* 11/30/2011 1:15:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.56	J	0.493	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-283-SA6-SB-9.0-10.0 *Collected:* 11/30/2011 1:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.80	J	0.386	MDL	5.36	PQL	mg/Kg	J	Z
PHOSPHORUS	352		0.375	MDL	10.7	PQL	mg/Kg	J	Q
SODIUM	96.3	J	6.38	MDL	107	PQL	mg/Kg	J	Z
TIN	2.62	J	0.343	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-283-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 10:00:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.24	J	0.480	MDL	5.22	PQL	mg/Kg	J	Z

Sample ID: SL-283-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.88	J	0.376	MDL	5.22	PQL	mg/Kg	J	Z
PHOSPHORUS	392		0.365	MDL	10.4	PQL	mg/Kg	J	Q
TIN	2.71	J	0.334	MDL	10.4	PQL	mg/Kg	U	B

Sample ID: SL-284-SA6-SB-14.0-15.0 *Collected:* 11/30/2011 10:50:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.65	J	0.512	MDL	5.56	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: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-284-SA6-SB-14.0-15.0 **Collected:** 11/30/2011 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	5.36	J	0.400	MDL	5.56	PQL	mg/Kg	J	Z
PHOSPHORUS	304		0.389	MDL	11.1	PQL	mg/Kg	J	Q
TIN	2.94	J	0.356	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: SL-284-SA6-SB-15.5-16.5 **Collected:** 11/30/2011 10:55:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.96	J	0.505	MDL	5.49	PQL	mg/Kg	U	B

Sample ID: SL-284-SA6-SB-15.5-16.5 **Collected:** 11/30/2011 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
BORON	4.71	J	0.395	MDL	5.49	PQL	mg/Kg	J	Z
PHOSPHORUS	201		0.384	MDL	11.0	PQL	mg/Kg	J	Q
TIN	2.73	J	0.351	MDL	11.0	PQL	mg/Kg	U	B

Sample ID: SL-284-SA6-SB-4.0-5.0 **Collected:** 11/30/2011 10:40:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.74	J	0.499	MDL	5.42	PQL	mg/Kg	U	B

Sample ID: SL-284-SA6-SB-4.0-5.0 **Collected:** 11/30/2011 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
BORON	4.67	J	0.390	MDL	5.42	PQL	mg/Kg	J	Z
PHOSPHORUS	330		0.380	MDL	10.8	PQL	mg/Kg	J	Q
TIN	2.60	J	0.347	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-284-SA6-SB-9.0-10.0 **Collected:** 11/30/2011 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
Zirconium	3.18	J	0.475	MDL	5.16	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: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-284-SA6-SB-9.0-10.0 *Collected:* 11/30/2011 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
BORON	3.80	J	0.371	MDL	5.16	PQL	mg/Kg	J	Z
PHOSPHORUS	361		0.361	MDL	10.3	PQL	mg/Kg	J	Q
TIN	2.58	J	0.330	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-284-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 8:25:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.39	J	0.499	MDL	5.42	PQL	mg/Kg	U	B

Sample ID: SL-284-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 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	5.40	J	0.390	MDL	5.42	PQL	mg/Kg	J	Z
PHOSPHORUS	473		0.380	MDL	10.8	PQL	mg/Kg	J	Q
TIN	11.5		0.347	MDL	10.8	PQL	mg/Kg	J	FD

Sample ID: SL-285-SA6-SB-4.0-5.0 *Collected:* 11/29/2011 3:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.18	J	0.364	MDL	5.05	PQL	mg/Kg	J	Z
PHOSPHORUS	344		0.354	MDL	10.1	PQL	mg/Kg	J	Q
SODIUM	83.0	J	6.01	MDL	101	PQL	mg/Kg	J	Z
TIN	2.60	J	0.323	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-285-SA6-SB-6.0-7.0 *Collected:* 11/29/2011 3:35:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	320		0.358	MDL	10.2	PQL	mg/Kg	J	Q
TIN	2.71	J	0.327	MDL	10.2	PQL	mg/Kg	U	B

Sample ID: SL-285-SA6-SB-6.0-7.0 *Collected:* 11/29/2011 3:35:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.36	J	0.470	MDL	5.11	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: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B Matrix: SO

Sample ID: SL-285-SA6-SS-0.0-0.5 *Collected:* 11/29/2011 1:35:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.36	J	0.476	MDL	5.18	PQL	mg/Kg	J	Z

Sample ID: SL-285-SA6-SS-0.0-0.5 *Collected:* 11/29/2011 1:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	375		0.362	MDL	10.4	PQL	mg/Kg	J	Q
TIN	2.95	J	0.331	MDL	10.4	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020 Matrix: SO

Sample ID: SL-282-SA6-SB-2.5-3.5 *Collected:* 11/30/2011 3:45:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.186	J	0.0630	MDL	0.435	PQL	mg/Kg	UJ	Q, B

Sample ID: SL-282-SA6-SB-2.5-3.5 *Collected:* 11/30/2011 3:45:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.868		0.0543	MDL	0.109	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-282-SA6-SB-2.5-3.5 *Collected:* 11/30/2011 3:45:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	114		0.115	MDL	0.435	PQL	mg/Kg	J	E, E

Sample ID: SL-282-SA6-SB-2.5-3.5 *Collected:* 11/30/2011 3:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.123	J	0.0804	MDL	0.217	PQL	mg/Kg	UJ	Q, B
ARSENIC	10.3		0.0869	MDL	0.435	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.09		0.0174	MDL	0.109	PQL	mg/Kg	J	Q, E
CADMIUM	0.0657	J	0.0478	MDL	0.109	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	27.4		0.130	MDL	0.435	PQL	mg/Kg	J	Q, E, A
COBALT	10.9		0.0217	MDL	0.109	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-282-SA6-SB-2.5-3.5 **Collected:** 11/30/2011 3:45:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	11.9		0.0869	MDL	0.435	PQL	mg/Kg	J	Q, E, E
LEAD	8.41		0.0111	MDL	0.217	PQL	mg/Kg	J	Q, E, E
NICKEL	17.1		0.109	MDL	0.435	PQL	mg/Kg	J	Q, E
SILVER	0.0317	J	0.0154	MDL	0.109	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.636		0.0326	MDL	0.109	PQL	mg/Kg	J	Q, E
VANADIUM	59.4		0.0239	MDL	0.109	PQL	mg/Kg	J	Q, E
ZINC	87.7		0.608	MDL	3.26	PQL	mg/Kg	J	E, A

Sample ID: SL-282-SA6-SS-0.0-0.5 **Collected:** 11/30/2011 12:35:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.115	J	0.0610	MDL	0.420	PQL	mg/Kg	UJ	Q, B

Sample ID: SL-282-SA6-SS-0.0-0.5 **Collected:** 11/30/2011 12:35:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.549		0.0526	MDL	0.105	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-282-SA6-SS-0.0-0.5 **Collected:** 11/30/2011 12:35:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	114		0.111	MDL	0.420	PQL	mg/Kg	J	E, E

Sample ID: SL-282-SA6-SS-0.0-0.5 **Collected:** 11/30/2011 12:35:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0943	J	0.0778	MDL	0.210	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.60		0.0841	MDL	0.420	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.529		0.0168	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	0.396		0.0462	MDL	0.105	PQL	mg/Kg	J	Q, E
CHROMIUM	20.1		0.126	MDL	0.420	PQL	mg/Kg	J	Q, E, A
COBALT	9.17		0.0210	MDL	0.105	PQL	mg/Kg	J	Q, E, A
COPPER	15.5		0.0841	MDL	0.420	PQL	mg/Kg	J	Q, E, E
LEAD	8.35		0.0107	MDL	0.210	PQL	mg/Kg	J	Q, E, E
NICKEL	14.5		0.105	MDL	0.420	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: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-282-SA6-SS-0.0-0.5 **Collected:** 11/30/2011 12:35:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0579	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.281		0.0315	MDL	0.105	PQL	mg/Kg	J	Q, E
VANADIUM	41.5		0.0231	MDL	0.105	PQL	mg/Kg	J	Q, E
ZINC	103		0.589	MDL	3.15	PQL	mg/Kg	J	E, A

Sample ID: SL-283-SA6-SB-14.0-15.0 **Collected:** 11/30/2011 1:20:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	23.6		0.129	MDL	0.430	PQL	mg/Kg	J	Q, E, A
VANADIUM	44.1		0.0237	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: SL-283-SA6-SB-14.0-15.0 **Collected:** 11/30/2011 1:20:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.667		0.0538	MDL	0.108	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-283-SA6-SB-14.0-15.0 **Collected:** 11/30/2011 1:20:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	84.4		0.114	MDL	0.430	PQL	mg/Kg	J	E, E

Sample ID: SL-283-SA6-SB-14.0-15.0 **Collected:** 11/30/2011 1:20:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0796	U	0.0796	MDL	0.215	PQL	mg/Kg	UJ	Q
ARSENIC	4.08		0.0861	MDL	0.430	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.686		0.0172	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.0474	U	0.0474	MDL	0.108	PQL	mg/Kg	UJ	E
COBALT	5.73		0.0215	MDL	0.108	PQL	mg/Kg	J	Q, E, A
COPPER	7.10		0.0861	MDL	0.430	PQL	mg/Kg	J	Q, E, E
LEAD	4.80		0.0110	MDL	0.215	PQL	mg/Kg	J	Q, E, E
NICKEL	11.3		0.108	MDL	0.430	PQL	mg/Kg	J	Q, E
SILVER	0.0306	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.271		0.0323	MDL	0.108	PQL	mg/Kg	J	Q, E
ZINC	45.2		0.603	MDL	3.23	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

Data Qualifier Summary

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-283-SA6-SB-18.0-19.0 *Collected:* 11/30/2011 1:25:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0660	J	0.0622	MDL	0.429	PQL	mg/Kg	UJ	Q, B

Sample ID: SL-283-SA6-SB-18.0-19.0 *Collected:* 11/30/2011 1:25:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.428		0.0536	MDL	0.107	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-283-SA6-SB-18.0-19.0 *Collected:* 11/30/2011 1:25:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	79.7		0.114	MDL	0.429	PQL	mg/Kg	J	E, E

Sample ID: SL-283-SA6-SB-18.0-19.0 *Collected:* 11/30/2011 1:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0794	U	0.0794	MDL	0.215	PQL	mg/Kg	UJ	Q
ARSENIC	5.07		0.0858	MDL	0.429	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.749		0.0172	MDL	0.107	PQL	mg/Kg	J	Q, E
CADMIUM	0.0472	U	0.0472	MDL	0.107	PQL	mg/Kg	UJ	E
CHROMIUM	21.4		0.129	MDL	0.429	PQL	mg/Kg	J	Q, E, A
COBALT	4.96		0.0215	MDL	0.107	PQL	mg/Kg	J	Q, E, A
COPPER	8.00		0.0858	MDL	0.429	PQL	mg/Kg	J	Q, E, E
LEAD	4.29		0.0109	MDL	0.215	PQL	mg/Kg	J	Q, E, E
NICKEL	9.71		0.107	MDL	0.429	PQL	mg/Kg	J	Q, E
SILVER	0.0730	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.251		0.0322	MDL	0.107	PQL	mg/Kg	J	Q, E
VANADIUM	40.4		0.0236	MDL	0.107	PQL	mg/Kg	J	Q, E
ZINC	49.4		0.601	MDL	3.22	PQL	mg/Kg	J	E, A

Sample ID: SL-283-SA6-SB-4.0-5.0 *Collected:* 11/30/2011 1:10:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	5.09		0.0271	MDL	0.532	PQL	mg/Kg	J	Q, E, E
THALLIUM	0.292		0.0798	MDL	0.266	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: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-283-SA6-SB-4.0-5.0 *Collected:* 11/30/2011 1:10:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	22.2		0.128	MDL	0.425	PQL	mg/Kg	J	Q, E, A
VANADIUM	43.9		0.0234	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: SL-283-SA6-SB-4.0-5.0 *Collected:* 11/30/2011 1:10:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.138	J	0.0617	MDL	0.425	PQL	mg/Kg	UJ	Q, B

Sample ID: SL-283-SA6-SB-4.0-5.0 *Collected:* 11/30/2011 1:10:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.678		0.0532	MDL	0.106	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-283-SA6-SB-4.0-5.0 *Collected:* 11/30/2011 1:10:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	111		0.113	MDL	0.425	PQL	mg/Kg	J	E, E

Sample ID: SL-283-SA6-SB-4.0-5.0 *Collected:* 11/30/2011 1:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0787	U	0.0787	MDL	0.213	PQL	mg/Kg	UJ	Q
ARSENIC	5.20		0.0851	MDL	0.425	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.918		0.0170	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.0973	J	0.0468	MDL	0.106	PQL	mg/Kg	J	Z, Q, E
COBALT	7.04		0.0213	MDL	0.106	PQL	mg/Kg	J	Q, E, A
COPPER	9.83		0.0851	MDL	0.425	PQL	mg/Kg	J	Q, E, E
NICKEL	14.5		0.106	MDL	0.425	PQL	mg/Kg	J	Q, E
SILVER	0.0307	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z, Q, E
ZINC	60.6		0.596	MDL	3.19	PQL	mg/Kg	J	E, A

Sample ID: SL-283-SA6-SB-9.0-10.0 *Collected:* 11/30/2011 1:15:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0701	J	0.0622	MDL	0.429	PQL	mg/Kg	UJ	Q, B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-283-SA6-SB-9.0-10.0 *Collected:* 11/30/2011 1:15:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.923		0.0536	MDL	0.107	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-283-SA6-SB-9.0-10.0 *Collected:* 11/30/2011 1:15:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	114		0.114	MDL	0.429	PQL	mg/Kg	J	E, E

Sample ID: SL-283-SA6-SB-9.0-10.0 *Collected:* 11/30/2011 1:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0794	U	0.0794	MDL	0.215	PQL	mg/Kg	UJ	Q
ARSENIC	5.99		0.0858	MDL	0.429	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.724		0.0172	MDL	0.107	PQL	mg/Kg	J	Q, E
CADMIUM	0.0658	J	0.0472	MDL	0.107	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	24.4		0.129	MDL	0.429	PQL	mg/Kg	J	Q, E, A
COBALT	7.21		0.0215	MDL	0.107	PQL	mg/Kg	J	Q, E, A
COPPER	7.97		0.0858	MDL	0.429	PQL	mg/Kg	J	Q, E, E
LEAD	5.89		0.0109	MDL	0.215	PQL	mg/Kg	J	Q, E, E
NICKEL	14.5		0.107	MDL	0.429	PQL	mg/Kg	J	Q, E
SILVER	0.0544	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.300		0.0322	MDL	0.107	PQL	mg/Kg	J	Q, E
VANADIUM	50.2		0.0236	MDL	0.107	PQL	mg/Kg	J	Q, E
ZINC	50.6		0.601	MDL	3.22	PQL	mg/Kg	J	E, A

Sample ID: SL-283-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 10:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.273	J	0.0594	MDL	0.410	PQL	mg/Kg	UJ	Q, B

Sample ID: SL-283-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 10:00:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.975		0.0512	MDL	0.102	PQL	mg/Kg	J	Q, E, E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-283-SA6-SS-0.0-0.5 **Collected:** 11/30/2011 10:00:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	109		0.109	MDL	0.410	PQL	mg/Kg	J	E, E

Sample ID: SL-283-SA6-SS-0.0-0.5 **Collected:** 11/30/2011 10:00:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.122	J	0.0758	MDL	0.205	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.49		0.0819	MDL	0.410	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.509		0.0164	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	0.245		0.0451	MDL	0.102	PQL	mg/Kg	J	Q, E
CHROMIUM	19.1		0.123	MDL	0.410	PQL	mg/Kg	J	Q, E, A
COBALT	7.17		0.0205	MDL	0.102	PQL	mg/Kg	J	Q, E, A
COPPER	12.7		0.0819	MDL	0.410	PQL	mg/Kg	J	Q, E, E
LEAD	10.9		0.0104	MDL	0.205	PQL	mg/Kg	J	Q, E, E
NICKEL	13.2		0.102	MDL	0.410	PQL	mg/Kg	J	Q, E
SILVER	0.0524	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.263		0.0307	MDL	0.102	PQL	mg/Kg	J	Q, E
VANADIUM	40.3		0.0225	MDL	0.102	PQL	mg/Kg	J	Q, E
ZINC	73.5		0.573	MDL	3.07	PQL	mg/Kg	J	E, A

Sample ID: SL-284-SA6-SB-14.0-15.0 **Collected:** 11/30/2011 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
SELENIUM	0.0673	J	0.0652	MDL	0.449	PQL	mg/Kg	UJ	Q, B

Sample ID: SL-284-SA6-SB-14.0-15.0 **Collected:** 11/30/2011 10:50:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.44		0.0562	MDL	0.112	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-284-SA6-SB-14.0-15.0 **Collected:** 11/30/2011 10:50:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	149		0.119	MDL	0.449	PQL	mg/Kg	J	E, 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: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-284-SA6-SB-14.0-15.0 **Collected:** 11/30/2011 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	0.0831	U	0.0831	MDL	0.225	PQL	mg/Kg	UJ	Q
ARSENIC	5.93		0.0899	MDL	0.449	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.10		0.0180	MDL	0.112	PQL	mg/Kg	J	Q, E
CADMIUM	0.0494	U	0.0494	MDL	0.112	PQL	mg/Kg	UJ	E
CHROMIUM	27.9		0.135	MDL	0.449	PQL	mg/Kg	J	Q, E, A
COBALT	7.54		0.0225	MDL	0.112	PQL	mg/Kg	J	Q, E, A
COPPER	8.46		0.0899	MDL	0.449	PQL	mg/Kg	J	Q, E, E
LEAD	8.32		0.0115	MDL	0.225	PQL	mg/Kg	J	Q, E, E
NICKEL	14.5		0.112	MDL	0.449	PQL	mg/Kg	J	Q, E
SILVER	0.0721	J	0.0160	MDL	0.112	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.396		0.0337	MDL	0.112	PQL	mg/Kg	J	Q, E
VANADIUM	53.1		0.0247	MDL	0.112	PQL	mg/Kg	J	Q, E
ZINC	67.1		0.629	MDL	3.37	PQL	mg/Kg	J	E, A

Sample ID: SL-284-SA6-SB-15.5-16.5 **Collected:** 11/30/2011 10:55:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0750	J	0.0631	MDL	0.435	PQL	mg/Kg	UJ	Q, B

Sample ID: SL-284-SA6-SB-15.5-16.5 **Collected:** 11/30/2011 10:55:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.14		0.0544	MDL	0.109	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-284-SA6-SB-15.5-16.5 **Collected:** 11/30/2011 10:55:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	142		0.115	MDL	0.435	PQL	mg/Kg	J	E, E

Sample ID: SL-284-SA6-SB-15.5-16.5 **Collected:** 11/30/2011 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	0.0912	J	0.0805	MDL	0.218	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.37		0.0870	MDL	0.435	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.09		0.0174	MDL	0.109	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: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-284-SA6-SB-15.5-16.5 **Collected:** 11/30/2011 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
CADMIUM	0.0704	J	0.0479	MDL	0.109	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	27.8		0.131	MDL	0.435	PQL	mg/Kg	J	Q, E, A
COBALT	8.45		0.0218	MDL	0.109	PQL	mg/Kg	J	Q, E, A
COPPER	8.82		0.0870	MDL	0.435	PQL	mg/Kg	J	Q, E, E
LEAD	8.62		0.0111	MDL	0.218	PQL	mg/Kg	J	Q, E, E
NICKEL	17.1		0.109	MDL	0.435	PQL	mg/Kg	J	Q, E
SILVER	0.0759	J	0.0154	MDL	0.109	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.373		0.0326	MDL	0.109	PQL	mg/Kg	J	Q, E
VANADIUM	55.3		0.0239	MDL	0.109	PQL	mg/Kg	J	Q, E
ZINC	71.4		0.609	MDL	3.26	PQL	mg/Kg	J	E, A

Sample ID: SL-284-SA6-SB-4.0-5.0 **Collected:** 11/30/2011 10:40:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.717		0.0169	MDL	0.105	PQL	mg/Kg	J	Q, E

Sample ID: SL-284-SA6-SB-4.0-5.0 **Collected:** 11/30/2011 10:40:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.119	J	0.0611	MDL	0.421	PQL	mg/Kg	UJ	Q, B

Sample ID: SL-284-SA6-SB-4.0-5.0 **Collected:** 11/30/2011 10:40:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.551		0.0527	MDL	0.105	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-284-SA6-SB-4.0-5.0 **Collected:** 11/30/2011 10:40:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.112	MDL	0.421	PQL	mg/Kg	J	E, E

Sample ID: SL-284-SA6-SB-4.0-5.0 **Collected:** 11/30/2011 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	0.0779	U	0.0779	MDL	0.211	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: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-284-SA6-SB-4.0-5.0 **Collected:** 11/30/2011 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
ARSENIC	5.65		0.0843	MDL	0.421	PQL	mg/Kg	J	Q, E
CADMIUM	0.0735	J	0.0463	MDL	0.105	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	23.4		0.126	MDL	0.421	PQL	mg/Kg	J	Q, E, A
COBALT	7.46		0.0211	MDL	0.105	PQL	mg/Kg	J	Q, E, A
COPPER	9.18		0.0843	MDL	0.421	PQL	mg/Kg	J	Q, E, E
LEAD	5.89		0.0107	MDL	0.211	PQL	mg/Kg	J	Q, E, E
NICKEL	13.6		0.105	MDL	0.421	PQL	mg/Kg	J	Q, E
SILVER	0.0335	J	0.0150	MDL	0.105	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.339		0.0316	MDL	0.105	PQL	mg/Kg	J	Q, E
VANADIUM	47.0		0.0232	MDL	0.105	PQL	mg/Kg	J	Q, E
ZINC	72.5		0.590	MDL	3.16	PQL	mg/Kg	J	E, A

Sample ID: SL-284-SA6-SB-9.0-10.0 **Collected:** 11/30/2011 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
MOLYBDENUM	0.391		0.0511	MDL	0.102	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-284-SA6-SB-9.0-10.0 **Collected:** 11/30/2011 10:45:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	87.7		0.108	MDL	0.409	PQL	mg/Kg	J	E, E

Sample ID: SL-284-SA6-SB-9.0-10.0 **Collected:** 11/30/2011 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	0.0756	U	0.0756	MDL	0.204	PQL	mg/Kg	UJ	Q
ARSENIC	5.60		0.0817	MDL	0.409	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.413		0.0163	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	0.103		0.0450	MDL	0.102	PQL	mg/Kg	J	Q, E
CHROMIUM	17.5		0.123	MDL	0.409	PQL	mg/Kg	J	Q, E, A
COBALT	6.41		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, E, A
COPPER	7.07		0.0817	MDL	0.409	PQL	mg/Kg	J	Q, E, E
LEAD	4.42		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, E, E
NICKEL	10.1		0.102	MDL	0.409	PQL	mg/Kg	J	Q, E
SILVER	0.0145	U	0.0145	MDL	0.102	PQL	mg/Kg	UJ	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-284-SA6-SB-9.0-10.0 **Collected:** 11/30/2011 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
THALLIUM	0.282		0.0307	MDL	0.102	PQL	mg/Kg	J	Q, E
VANADIUM	34.5		0.0225	MDL	0.102	PQL	mg/Kg	J	Q, E
ZINC	66.5		0.572	MDL	3.07	PQL	mg/Kg	J	E, A

Sample ID: SL-284-SA6-SS-0.0-0.5 **Collected:** 11/30/2011 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
SELENIUM	0.635		0.0617	MDL	0.425	PQL	mg/Kg	J	Q

Sample ID: SL-284-SA6-SS-0.0-0.5 **Collected:** 11/30/2011 8:25:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	3.21		0.0532	MDL	0.106	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-284-SA6-SS-0.0-0.5 **Collected:** 11/30/2011 8:25:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	121		0.113	MDL	0.425	PQL	mg/Kg	J	E, E

Sample ID: SL-284-SA6-SS-0.0-0.5 **Collected:** 11/30/2011 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	0.116	J	0.0787	MDL	0.213	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.41		0.0851	MDL	0.425	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.641		0.0170	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.272		0.0468	MDL	0.106	PQL	mg/Kg	J	Q, E
CHROMIUM	20.1		0.128	MDL	0.425	PQL	mg/Kg	J	Q, E, A
COBALT	7.10		0.0213	MDL	0.106	PQL	mg/Kg	J	Q, E, A
COPPER	13.0		0.0851	MDL	0.425	PQL	mg/Kg	J	Q, E, E
LEAD	12.9		0.0108	MDL	0.213	PQL	mg/Kg	J	Q, E, E
NICKEL	13.2		0.106	MDL	0.425	PQL	mg/Kg	J	Q, E
SILVER	0.0445	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.238		0.0319	MDL	0.106	PQL	mg/Kg	J	Q, E
VANADIUM	41.2		0.0234	MDL	0.106	PQL	mg/Kg	J	Q, E
ZINC	107		0.595	MDL	3.19	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE290 **Laboratory:** LL

EDD Filename: DE290_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-285-SA6-SB-4.0-5.0 *Collected:* 11/29/2011 3:25:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0694	J	0.0580	MDL	0.400	PQL	mg/Kg	UJ	Q, B

Sample ID: SL-285-SA6-SB-4.0-5.0 *Collected:* 11/29/2011 3:25:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.325		0.0500	MDL	0.100	PQL	mg/Kg	UJ	Q, E, E, B

Sample ID: SL-285-SA6-SB-4.0-5.0 *Collected:* 11/29/2011 3:25:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	96.5		0.106	MDL	0.400	PQL	mg/Kg	J	E, E

Sample ID: SL-285-SA6-SB-4.0-5.0 *Collected:* 11/29/2011 3:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0740	U	0.0740	MDL	0.200	PQL	mg/Kg	UJ	Q
ARSENIC	5.84		0.0800	MDL	0.400	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.484		0.0160	MDL	0.100	PQL	mg/Kg	J	Q, E
CADMIUM	0.0791	J	0.0440	MDL	0.100	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	18.3		0.120	MDL	0.400	PQL	mg/Kg	J	Q, E, A
COBALT	6.38		0.0200	MDL	0.100	PQL	mg/Kg	J	Q, E, A
COPPER	8.08		0.0800	MDL	0.400	PQL	mg/Kg	J	Q, E, E
LEAD	5.93		0.0102	MDL	0.200	PQL	mg/Kg	J	Q, E, E
NICKEL	10.7		0.100	MDL	0.400	PQL	mg/Kg	J	Q, E
SILVER	0.0142	U	0.0142	MDL	0.100	PQL	mg/Kg	UJ	E
THALLIUM	0.286		0.0300	MDL	0.100	PQL	mg/Kg	J	Q, E
VANADIUM	38.8		0.0220	MDL	0.100	PQL	mg/Kg	J	Q, E
ZINC	75.6		0.560	MDL	3.00	PQL	mg/Kg	J	E, A

Sample ID: SL-285-SA6-SB-6.0-7.0 *Collected:* 11/29/2011 3:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.201	J	0.0604	MDL	0.417	PQL	mg/Kg	UJ	Q, B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-285-SA6-SB-6.0-7.0 **Collected:** 11/29/2011 3:35:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.671		0.0521	MDL	0.104	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-285-SA6-SB-6.0-7.0 **Collected:** 11/29/2011 3:35:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	67.3		0.110	MDL	0.417	PQL	mg/Kg	J	E, E

Sample ID: SL-285-SA6-SB-6.0-7.0 **Collected:** 11/29/2011 3:35:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0771	U	0.0771	MDL	0.208	PQL	mg/Kg	UJ	Q
ARSENIC	5.19		0.0833	MDL	0.417	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.544		0.0167	MDL	0.104	PQL	mg/Kg	J	Q, E
CADMIUM	0.0558	J	0.0458	MDL	0.104	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	16.8		0.125	MDL	0.417	PQL	mg/Kg	J	Q, E, A
COBALT	5.79		0.0208	MDL	0.104	PQL	mg/Kg	J	Q, E, A
COPPER	6.31		0.0833	MDL	0.417	PQL	mg/Kg	J	Q, E, E
LEAD	4.56		0.0106	MDL	0.208	PQL	mg/Kg	J	Q, E, E
NICKEL	7.56		0.104	MDL	0.417	PQL	mg/Kg	J	Q, E
SILVER	0.0187	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.287		0.0313	MDL	0.104	PQL	mg/Kg	J	Q, E
VANADIUM	31.3		0.0229	MDL	0.104	PQL	mg/Kg	J	Q, E
ZINC	81.1		0.583	MDL	3.13	PQL	mg/Kg	J	E, A

Sample ID: SL-285-SA6-SS-0.0-0.5 **Collected:** 11/29/2011 1:35:00 **Analysis Type:** REA **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	91.7		0.0269	MDL	0.528	PQL	mg/Kg	J	Q, E, E
ZINC	173		1.48	MDL	7.92	PQL	mg/Kg	J	E, A

Sample ID: SL-285-SA6-SS-0.0-0.5 **Collected:** 11/29/2011 1:35:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	31.5		0.127	MDL	0.422	PQL	mg/Kg	J	Q, E, A
VANADIUM	43.1		0.0232	MDL	0.106	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: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-285-SA6-SS-0.0-0.5 *Collected:* 11/29/2011 1:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.241	J	0.0612	MDL	0.422	PQL	mg/Kg	UJ	Q, B

Sample ID: SL-285-SA6-SS-0.0-0.5 *Collected:* 11/29/2011 1:35:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.95		0.0528	MDL	0.106	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-285-SA6-SS-0.0-0.5 *Collected:* 11/29/2011 1:35:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	90.9		0.112	MDL	0.422	PQL	mg/Kg	J	E, E

Sample ID: SL-285-SA6-SS-0.0-0.5 *Collected:* 11/29/2011 1:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.101	J	0.0781	MDL	0.211	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.51		0.0844	MDL	0.422	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.690		0.0169	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.572		0.0464	MDL	0.106	PQL	mg/Kg	J	Q, E
COBALT	6.63		0.0211	MDL	0.106	PQL	mg/Kg	J	Q, E, A
COPPER	42.3		0.0844	MDL	0.422	PQL	mg/Kg	J	Q, E, E
NICKEL	16.2		0.106	MDL	0.422	PQL	mg/Kg	J	Q, E
SILVER	0.164		0.0150	MDL	0.106	PQL	mg/Kg	J	Q, E
THALLIUM	0.275		0.0317	MDL	0.106	PQL	mg/Kg	J	Q, E

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-282-SA6-SB-2.5-3.5 *Collected:* 11/30/2011 3:45:00 *Analysis Type:* RES *Dilution:* 1

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-282-SA6-SS-0.0-0.5 **Collected:** 11/30/2011 12:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-283-SA6-SB-14.0-15.0 **Collected:** 11/30/2011 1:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-283-SA6-SB-4.0-5.0 **Collected:** 11/30/2011 1:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.65	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-283-SA6-SB-9.0-10.0 **Collected:** 11/30/2011 1:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.33	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-283-SA6-SS-0.0-0.5 **Collected:** 11/30/2011 10:00:00 **Analysis Type:** RES **Dilution:** 1

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

Sample ID: SL-284-SA6-SB-14.0-15.0 **Collected:** 11/30/2011 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	0.37	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-284-SA6-SB-15.5-16.5 **Collected:** 11/30/2011 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	0.32	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-284-SA6-SB-4.0-5.0 **Collected:** 11/30/2011 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
HEXAVALENT CHROMIUM	0.24	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: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 7199 **Matrix:** SO

Sample ID: SL-284-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 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	0.33	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-285-SA6-SB-6.0-7.0 *Collected:* 11/29/2011 3:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.37	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-285-SA6-SS-0.0-0.5 *Collected:* 11/29/2011 1:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.58	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

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

Sample ID: SL-282-SA6-SB-2.5-3.5 *Collected:* 11/30/2011 3:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0122	J	0.0078	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-284-SA6-SB-14.0-15.0 *Collected:* 11/30/2011 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
MERCURY	0.0117	J	0.0075	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-284-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 8:25:00 *Analysis Type:* RES *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	2.87		0.0728	MDL	1.04	PQL	mg/Kg	J	FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE290 **Laboratory:** LL

EDD Filename: DE290_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1625C **Matrix:** AQ

Sample ID: EB-SA6-SB-113011 *Collected:* 11/30/2011 4:00:00 *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	2.65		0.479	MDL	0.958	PQL	ng/L	J	L, S

Sample ID: TB-113011 *Collected:* 11/30/2011 8:00:00 *Analysis Type:* REA-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.482	U	0.482	MDL	0.964	PQL	ng/L	UJ	L

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-282-SA6-SB-2.5-3.5 *Collected:* 11/30/2011 3:45:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	1.3	J	0.57	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-283-SA6-SB-14.0-15.0 *Collected:* 11/30/2011 1:20:00 *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)	0.56	J	0.47	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-283-SA6-SB-18.0-19.0 *Collected:* 11/30/2011 1:25:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	1.3	J	0.57	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-283-SA6-SB-18.0-19.0 *Collected:* 11/30/2011 1:25:00 *Analysis Type:* RES *Dilution:* 24.61

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	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-283-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-284-SA6-SB-14.0-15.0 *Collected:* 11/30/2011 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 (C30-C40)	0.83	J	0.54	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-284-SA6-SB-4.0-5.0 *Collected:* 11/30/2011 10:40:00 *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)	0.91	J	0.49	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-284-SA6-SB-9.0-10.0 *Collected:* 11/30/2011 10:45:00 *Analysis Type:* REA *Dilution:* 22.32

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.6	J	0.2	MDL	0.9	PQL	mg/Kg	J	Z

Sample ID: SL-284-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 8:25:00 *Analysis Type:* REA *Dilution:* 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	180		22	MDL	66	PQL	mg/Kg	J	FD
EFH (C30-C40)	800		22	MDL	66	PQL	mg/Kg	J	FD

Sample ID: SL-285-SA6-SB-4.0-5.0 *Collected:* 11/29/2011 3:25:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.84	J	0.52	MDL	1.6	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-282-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 12:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.27	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z
ENDOSULFAN II	0.12	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-283-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 10:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	Q
4,4'-DDE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	S
4,4'-DDT	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	Q
ALDRIN	0.070	U	0.070	MDL	0.18	PQL	ug/Kg	R	Q
ALPHA-BHC	0.036	U	0.036	MDL	0.18	PQL	ug/Kg	R	Q
BETA-BHC	0.064	U	0.064	MDL	0.18	PQL	ug/Kg	R	Q
Chlordane	0.85	U	0.85	MDL	3.6	PQL	ug/Kg	UJ	S
DELTA-BHC	0.038	U	0.038	MDL	0.18	PQL	ug/Kg	R	Q
DIELDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	Q
ENDOSULFAN I	0.047	U	0.047	MDL	0.18	PQL	ug/Kg	R	Q
ENDOSULFAN II	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	Q
ENDOSULFAN SULFATE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	Q
ENDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.22	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z, Q, S
ENDRIN KETONE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	Q
gamma-BHC (Lindane)	0.036	U	0.036	MDL	0.18	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.064	U	0.064	MDL	0.18	PQL	ug/Kg	R	Q
HEPTACHLOR EPOXIDE	0.036	U	0.036	MDL	0.18	PQL	ug/Kg	UJ	Q, S
METHOXYCHLOR	0.36	U	0.36	MDL	1.8	PQL	ug/Kg	UJ	Q, S
MIREX	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	S
TOXAPHENE	2.3	U	2.3	MDL	7.0	PQL	ug/Kg	UJ	S

Sample ID: SL-284-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 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
4,4'-DDD	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	UJ	S
4,4'-DDE	0.11	J	0.072	MDL	0.37	PQL	ug/Kg	J	Z, S, FD
4,4'-DDT	0.50	U	0.50	MDL	0.50	PQL	ug/Kg	UJ	S, FD
ALDRIN	0.072	U	0.072	MDL	0.18	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.037	U	0.037	MDL	0.18	PQL	ug/Kg	UJ	S
BETA-BHC	0.066	U	0.066	MDL	0.18	PQL	ug/Kg	UJ	S
Chlordane	0.88	U	0.88	MDL	3.7	PQL	ug/Kg	UJ	S
DELTA-BHC	0.039	U	0.039	MDL	0.18	PQL	ug/Kg	UJ	S
DIELDRIN	0.11	J	0.072	MDL	0.37	PQL	ug/Kg	J	Z, S, 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: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-284-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 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
ENDOSULFAN I	0.048	U	0.048	MDL	0.18	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.11	U	0.11	MDL	0.37	PQL	ug/Kg	UJ	S, FD
ENDOSULFAN SULFATE	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	UJ	S
ENDRIN	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.32	U	0.32	MDL	0.37	PQL	ug/Kg	UJ	S, FD
ENDRIN KETONE	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.037	U	0.037	MDL	0.18	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.066	U	0.066	MDL	0.18	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.037	U	0.037	MDL	0.18	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.37	U	0.37	MDL	1.8	PQL	ug/Kg	UJ	S
MIREX	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	UJ	S
TOXAPHENE	2.4	U	2.4	MDL	7.2	PQL	ug/Kg	UJ	S

Sample ID: SL-285-SA6-SS-0.0-0.5 *Collected:* 11/29/2011 1:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEPTACHLOR EPOXIDE	0.14	J	0.036	MDL	0.18	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-284-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 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	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	FD
AROCLOR 1260	5.9		0.43	MDL	1.9	PQL	ug/Kg	J	FD
Aroclor 5460	17		1.1	MDL	3.6	PQL	ug/Kg	J	FD

Sample ID: SL-285-SA6-SS-0.0-0.5 *Collected:* 11/29/2011 1:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.6	J	0.42	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-282-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.15	J	0.079	MDL	0.18	PQL	ug/Kg	J	Z
MCPA	100	J	81	MDL	260	PQL	ug/Kg	J	Z
MCPP	110	J	79	MDL	260	PQL	ug/Kg	J	Z

Sample ID: SL-283-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MCPA	110	J	81	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SL-284-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 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
2,4,5-TP (Silvex)	0.11	J	0.082	MDL	0.19	PQL	ug/Kg	J	Z
MCPA	340	U	340	MDL	340	PQL	ug/Kg	UJ	FD
MCPP	140	J	82	MDL	270	PQL	ug/Kg	J	Z, FD

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-282-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 12:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	92	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	84	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	110	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	63	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	51	J	18	MDL	180	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	140	J	18	MDL	350	PQL	ug/Kg	J	Z
CHRYSENE	84	J	18	MDL	180	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	24	J	18	MDL	180	PQL	ug/Kg	J	Z
FLUORANTHENE	130	J	18	MDL	180	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	53	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	140	J	18	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-283-SA6-SB-4.0-5.0 *Collected:* 11/30/2011 1:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	20	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-283-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 10:00:00 *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	1800	U	1800	MDL	5300	PQL	ug/Kg	R	Q
4-NITROPHENOL	1800	U	1800	MDL	5300	PQL	ug/Kg	R	Q
ANILINE	1800	U	1800	MDL	5300	PQL	ug/Kg	R	Q
BENZIDINE	12000	U	12000	MDL	35000	PQL	ug/Kg	R	Q
BENZOIC ACID	1800	U	1800	MDL	5300	PQL	ug/Kg	R	Q
BENZYL ALCOHOL	1800	U	1800	MDL	5300	PQL	ug/Kg	R	Q

Sample ID: SL-284-SA6-SB-14.0-15.0 *Collected:* 11/30/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	19	J	19	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-284-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 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
ANTHRACENE	91	U	91	MDL	910	PQL	ug/Kg	UJ	FD
BENZO(A)PYRENE	91	U	91	MDL	910	PQL	ug/Kg	UJ	FD
BENZO(B)FLUORANTHENE	91	U	91	MDL	910	PQL	ug/Kg	UJ	FD
BENZO(G,H,I)PERYLENE	91	U	91	MDL	910	PQL	ug/Kg	UJ	FD
BIS(2-ETHYLHEXYL)PHTHALATE	91	U	91	MDL	1800	PQL	ug/Kg	UJ	FD
CHRYSENE	91	U	91	MDL	910	PQL	ug/Kg	UJ	FD
INDENO(1,2,3-CD)PYRENE	91	U	91	MDL	910	PQL	ug/Kg	UJ	FD

Sample ID: SL-285-SA6-SS-0.0-0.5 *Collected:* 11/29/2011 1:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	21	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: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-283-SA6-SB-18.0-19.0 *Collected:* 11/30/2011 1:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	11	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-284-SA6-SB-15.5-16.5 *Collected:* 11/30/2011 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
BENZO(B)FLUORANTHENE	1.3	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.0	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-285-SA6-SB-6.0-7.0 *Collected:* 11/29/2011 3:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.8	J	6.4	MDL	19	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8315A **Matrix:** SO

Sample ID: SL-285-SA6-SB-6.0-7.0 *Collected:* 11/29/2011 3:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	810	J	630	MDL	1600	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-284-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 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
METHANOL	130	J	110	MDL	550	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: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-285-SA6-SB-4.0-5.0 **Collected:** 11/29/2011 3:25:00 **Analysis Type:** RES **Dilution:** 0.93

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.19	J	0.12	MDL	3.9	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	1.5	J	0.23	MDL	3.9	PQL	ug/Kg	U	B
TOLUENE	0.09	J	0.08	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-285-SA6-SB-6.0-7.0 **Collected:** 11/29/2011 3:35:00 **Analysis Type:** RES **Dilution:** 1.06

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.25	J	0.13	MDL	4.5	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	1.7	J	0.27	MDL	4.5	PQL	ug/Kg	U	B
TOLUENE	0.17	J	0.09	MDL	4.5	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE290 **Laboratory: LL**

EDD Filename: DE290_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
FD	Field Duplicate Precision
L	Laboratory Control Spike Lower Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Upper Estimation
Z	Reporting Limit Trace Value

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE290

Method Blank Outlier Report

Lab Reporting Batch ID: DE290 **Laboratory: LL**

EDD Filename: DE290_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P33908BB221208	12/8/2011 12:08:00 PM	CALCIUM IRON MAGNESIUM PHOSPHORUS TIN	4.62 mg/Kg 4.80 mg/Kg 4.81 mg/Kg 0.983 mg/Kg 1.52 mg/Kg	SL-282-SA6-SB-2.5-3.5 SL-282-SA6-SS-0.0-0.5 SL-283-SA6-SB-14.0-15.0 SL-283-SA6-SB-18.0-19.0 SL-283-SA6-SB-4.0-5.0 SL-283-SA6-SB-9.0-10.0 SL-283-SA6-SS-0.0-0.5 SL-284-SA6-SB-14.0-15.0 SL-284-SA6-SB-15.5-16.5 SL-284-SA6-SB-4.0-5.0 SL-284-SA6-SB-9.0-10.0 SL-284-SA6-SS-0.0-0.5 SL-285-SA6-SB-4.0-5.0 SL-285-SA6-SS-0.0-0.5
P34108AB220345	12/9/2011 3:45:00 AM	CALCIUM IRON MAGNESIUM PHOSPHORUS STRONTIUM TIN	8.12 mg/Kg 3.17 mg/Kg 4.76 mg/Kg 0.960 mg/Kg 0.0287 mg/Kg 1.33 mg/Kg	SL-285-SA6-SB-6.0-7.0

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-282-SA6-SB-2.5-3.5(RES)	TIN	3.51 mg/Kg	3.51U mg/Kg
SL-282-SA6-SS-0.0-0.5(RES)	TIN	2.65 mg/Kg	2.65U mg/Kg
SL-283-SA6-SB-14.0-15.0(RES)	TIN	2.70 mg/Kg	2.70U mg/Kg
SL-283-SA6-SB-18.0-19.0(RES)	TIN	2.82 mg/Kg	2.82U mg/Kg
SL-283-SA6-SB-4.0-5.0(RES)	TIN	2.61 mg/Kg	2.61U mg/Kg
SL-283-SA6-SB-9.0-10.0(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-283-SA6-SS-0.0-0.5(RES)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-284-SA6-SB-14.0-15.0(RES)	TIN	2.94 mg/Kg	2.94U mg/Kg
SL-284-SA6-SB-15.5-16.5(RES)	TIN	2.73 mg/Kg	2.73U mg/Kg
SL-284-SA6-SB-4.0-5.0(RES)	TIN	2.60 mg/Kg	2.60U mg/Kg
SL-284-SA6-SB-9.0-10.0(RES)	TIN	2.58 mg/Kg	2.58U mg/Kg
SL-285-SA6-SB-4.0-5.0(RES)	TIN	2.60 mg/Kg	2.60U mg/Kg
SL-285-SA6-SB-6.0-7.0(REA3)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-285-SA6-SS-0.0-0.5(RES)	TIN	2.95 mg/Kg	2.95U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE290 **Laboratory: LL**

EDD Filename: DE290_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P33926BB220518B	12/12/2011 5:18:00 AM	SELENIUM	0.0675 mg/Kg	SL-282-SA6-SB-2.5-3.5 SL-282-SA6-SS-0.0-0.5 SL-283-SA6-SB-14.0-15.0 SL-283-SA6-SB-18.0-19.0 SL-283-SA6-SB-4.0-5.0 SL-283-SA6-SB-9.0-10.0 SL-283-SA6-SS-0.0-0.5 SL-284-SA6-SB-14.0-15.0 SL-284-SA6-SB-15.5-16.5 SL-284-SA6-SB-4.0-5.0 SL-284-SA6-SB-9.0-10.0 SL-284-SA6-SS-0.0-0.5 SL-285-SA6-SB-4.0-5.0 SL-285-SA6-SB-6.0-7.0 SL-285-SA6-SS-0.0-0.5
P33926BB221247A	12/8/2011 12:47:00 PM	LEAD ZINC	0.0126 mg/Kg 0.838 mg/Kg	SL-282-SA6-SB-2.5-3.5 SL-282-SA6-SS-0.0-0.5 SL-283-SA6-SB-14.0-15.0 SL-283-SA6-SB-18.0-19.0 SL-283-SA6-SB-4.0-5.0 SL-283-SA6-SB-9.0-10.0 SL-283-SA6-SS-0.0-0.5 SL-284-SA6-SB-14.0-15.0 SL-284-SA6-SB-15.5-16.5 SL-284-SA6-SB-4.0-5.0 SL-284-SA6-SB-9.0-10.0 SL-284-SA6-SS-0.0-0.5 SL-285-SA6-SB-4.0-5.0 SL-285-SA6-SB-6.0-7.0 SL-285-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-282-SA6-SB-2.5-3.5(REA3)	SELENIUM	0.186 mg/Kg	0.186U mg/Kg
SL-282-SA6-SS-0.0-0.5(REA3)	SELENIUM	0.115 mg/Kg	0.115U mg/Kg
SL-283-SA6-SB-18.0-19.0(REA3)	SELENIUM	0.0660 mg/Kg	0.0660U mg/Kg
SL-283-SA6-SB-4.0-5.0(REA3)	SELENIUM	0.138 mg/Kg	0.138U mg/Kg
SL-283-SA6-SB-9.0-10.0(REA3)	SELENIUM	0.0701 mg/Kg	0.0701U mg/Kg
SL-283-SA6-SS-0.0-0.5(REA3)	SELENIUM	0.273 mg/Kg	0.273U mg/Kg
SL-284-SA6-SB-14.0-15.0(REA3)	SELENIUM	0.0673 mg/Kg	0.0673U mg/Kg
SL-284-SA6-SB-15.5-16.5(REA3)	SELENIUM	0.0750 mg/Kg	0.0750U mg/Kg
SL-284-SA6-SB-4.0-5.0(REA3)	SELENIUM	0.119 mg/Kg	0.119U mg/Kg
SL-285-SA6-SB-4.0-5.0(REA3)	SELENIUM	0.0694 mg/Kg	0.0694U mg/Kg
SL-285-SA6-SB-6.0-7.0(REA3)	SELENIUM	0.201 mg/Kg	0.201U mg/Kg
SL-285-SA6-SS-0.0-0.5(REA3)	SELENIUM	0.241 mg/Kg	0.241U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE290 **Laboratory: LL**

EDD Filename: DE290_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8260B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB22B211148A	12/6/2011 11:48:00 AM	1,2,4-TRIMETHYLBENZENE	1.9 ug/Kg	SL-285-SA6-SB-4.0-5.0
		1,3,5-TRIMETHYLBENZENE	0.81 ug/Kg	SL-285-SA6-SB-6.0-7.0
		CHLOROFORM	0.26 ug/Kg	
		ETHYLBENZENE	0.27 ug/Kg	
		m,p-Xylene	1.1 ug/Kg	
		METHYLENE CHLORIDE	0.40 ug/Kg	
		N-PROPYLBENZENE	0.28 ug/Kg	
		O-XYLENE	0.18 ug/Kg	
		SEC-BUTYLBENZENE	0.06 ug/Kg	
		TOLUENE	0.08 ug/Kg	

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-285-SA6-SB-4.0-5.0(RES)	CHLOROFORM	0.19 ug/Kg	3.9U ug/Kg
SL-285-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.5 ug/Kg	3.9U ug/Kg
SL-285-SA6-SB-4.0-5.0(RES)	TOLUENE	0.09 ug/Kg	3.9U ug/Kg
SL-285-SA6-SB-6.0-7.0(RES)	CHLOROFORM	0.25 ug/Kg	4.5U ug/Kg
SL-285-SA6-SB-6.0-7.0(RES)	METHYLENE CHLORIDE	1.7 ug/Kg	4.5U ug/Kg
SL-285-SA6-SB-6.0-7.0(RES)	TOLUENE	0.17 ug/Kg	4.5U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-283-SA6-SS-0.0-0.5MSD (SL-283-SA6-SS-0.0-0.5)	4,4'-DDE	-	-	18.00-161.00	69 (50.00)	4,4'-DDE	J (all detects)
	ENDRIN	-	-	11.00-149.00	63 (50.00)	ENDRIN	
	ENDRIN ALDEHYDE	-	-	10.00-148.00	38 (35.00)	ENDRIN ALDEHYDE	
	gamma-BHC (Lindane)	-	-	10.00-140.00	72 (50.00)	gamma-BHC (Lindane)	
SL-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-283-SA6-SS-0.0-0.5)	4,4'-DDD	0	0	16.00-163.00	-	4,4'-DDD	J(all detects) R(all non-detects)
	4,4'-DDT	0	0	10.00-176.00	-	4,4'-DDT	
	ALDRIN	-	0	16.00-126.00	200 (50.00)	ALDRIN	
	ALPHA-BHC	0	-	10.00-129.00	200 (50.00)	ALPHA-BHC	
	BETA-BHC	-	0	14.00-147.00	200 (50.00)	BETA-BHC	
	DELTA-BHC	0	0	23.00-140.00	-	DELTA-BHC	
	DIELDRIN	0	0	19.00-154.00	-	DIELDRIN	
	ENDOSULFAN I	0	0	16.00-137.00	-	ENDOSULFAN I	
	ENDOSULFAN II	0	-	28.00-154.00	200 (50.00)	ENDOSULFAN II	
	ENDOSULFAN SULFATE	-	0	21.00-160.00	200 (50.00)	ENDOSULFAN SULFATE	
	ENDRIN KETONE	0	0	22.00-165.00	-	ENDRIN KETONE	
	HEPTACHLOR	-	0	13.00-126.00	200 (50.00)	HEPTACHLOR	
SL-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-283-SA6-SS-0.0-0.5)	HEPTACHLOR EPOXIDE	-	12	13.00-157.00	104 (50.00)	HEPTACHLOR EPOXIDE	J(all detects) UJ(all non-detects)
	METHOXYCHLOR	29	21	32.00-147.00	-	METHOXYCHLOR	

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-283-SA6-SS-0.0-0.5)	EFH (C12-C14)	0	0	49.00-123.00	-	EFH (C12-C14)	No Qual, Diluted Out
	EFH (C15-C20)	0	0	49.00-123.00	-	EFH (C15-C20)	
	EFH (C21-C30)	147	-288	49.00-123.00	-	EFH (C21-C30)	
	EFH (C30-C40)	-4209	-3930	49.00-123.00	-	EFH (C30-C40)	
	EFH (C8-C11)	0	0	49.00-123.00	-	EFH (C8-C11)	

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-283-SA6-SS-0.0-0.5MSD (SL-283-SA6-SS-0.0-0.5)	MCPP	-	-	10.00-184.00	64 (50.00)	MCPP	J(all detects)

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-283-SA6-SS-0.0-0.5)	DIETHYLENE GLYCOL	24	23	59.00-109.00	-	DIETHYLENE GLYCOL	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-283-SA6-SS-0.0-0.5)	PENTACHLOROPHENOL	155	154	28.00-127.00	-	PENTACHLOROPHENOL	J(all detects)
SL-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-283-SA6-SS-0.0-0.5)	4,6-DINITRO-2-METHYLPHENOL 4-NITROPHENOL ANILINE BENZIDINE BENZOIC ACID BENZYL ALCOHOL	0 0 0 0 0 0	0 0 0 0 0 0	11.00-126.00 37.00-129.00 18.00-116.00 35.00-141.00 10.00-173.00 67.00-115.00	- - - - - -	4,6-DINITRO-2-METHYLPHEN 4-NITROPHENOL ANILINE BENZIDINE BENZOIC ACID BENZYL ALCOHOL	J(all detects) R(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-282-SA6-SB-2.5-3.5 SL -282-SA6-SS-0.0-0.5 SL -283-SA6-SB-14.0-15.0 SL -283-SA6-SB-18.0-19.0 SL -283-SA6-SB-4.0-5.0 SL -283-SA6-SB-9.0-10.0 SL -283-SA6-SS-0.0-0.5 SL -284-SA6-SB-14.0-15.0 SL -284-SA6-SB-15.5-16.5 SL -284-SA6-SB-4.0-5.0 SL -284-SA6-SB-9.0-10.0 SL -284-SA6-SS-0.0-0.5 SL -285-SA6-SB-4.0-5.0 SL -285-SA6-SB-6.0-7.0 SL -285-SA6-SS-0.0-0.5)	ANTIMONY ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	43 277 204 188 263 191 257 329 256 175 202 348 477	37 165 - 127 155 128 136 - 145 - 136 191 214	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 75.00-125.00	- 26 (20.00) 39 (20.00) 35 (20.00) 28 (20.00) 37 (20.00) 39 (20.00) 46 (20.00) 35 (20.00) 35 (20.00) 29 (20.00) 25 (20.00) 26 (20.00)	ANTIMONY ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	J(all detects) UJ(all non-detects) Zn, No Qual %R, >4x
SL-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-282-SA6-SB-2.5-3.5 SL -282-SA6-SS-0.0-0.5 SL -283-SA6-SB-14.0-15.0 SL -283-SA6-SB-18.0-19.0 SL -283-SA6-SB-4.0-5.0 SL -283-SA6-SB-9.0-10.0 SL -283-SA6-SS-0.0-0.5 SL -284-SA6-SB-14.0-15.0 SL -284-SA6-SB-15.5-16.5 SL -284-SA6-SB-4.0-5.0 SL -284-SA6-SB-9.0-10.0 SL -284-SA6-SS-0.0-0.5 SL -285-SA6-SB-4.0-5.0 SL -285-SA6-SB-6.0-7.0 SL -285-SA6-SS-0.0-0.5)	SELENIUM	131	131	75.00-125.00	-	SELENIUM	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_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-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-282-SA6-SB-2.5-3.5 SL -282-SA6-SS-0.0-0.5 SL -283-SA6-SB-14.0-15.0 SL -283-SA6-SB-18.0-19.0 SL -283-SA6-SB-4.0-5.0 SL -283-SA6-SB-9.0-10.0 SL -283-SA6-SS-0.0-0.5 SL -284-SA6-SB-14.0-15.0 SL -284-SA6-SB-15.5-16.5 SL -284-SA6-SB-4.0-5.0 SL -284-SA6-SB-9.0-10.0 SL -284-SA6-SS-0.0-0.5 SL -285-SA6-SB-4.0-5.0 SL -285-SA6-SB-6.0-7.0 SL -285-SA6-SS-0.0-0.5)	MOLYBDENUM	179	-	75.00-125.00	35 (20.00)	MOLYBDENUM	J(all detects) UJ(all non-detects)
SL-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-282-SA6-SB-2.5-3.5 SL -282-SA6-SS-0.0-0.5 SL -283-SA6-SB-14.0-15.0 SL -283-SA6-SB-18.0-19.0 SL -283-SA6-SB-4.0-5.0 SL -283-SA6-SB-9.0-10.0 SL -283-SA6-SS-0.0-0.5 SL -284-SA6-SB-14.0-15.0 SL -284-SA6-SB-15.5-16.5 SL -284-SA6-SB-4.0-5.0 SL -284-SA6-SB-9.0-10.0 SL -284-SA6-SS-0.0-0.5 SL -285-SA6-SB-4.0-5.0 SL -285-SA6-SB-6.0-7.0 SL -285-SA6-SS-0.0-0.5)	BARIUM	550	130	75.00-125.00	31 (20.00)	BARIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-283-SA6-SS-0.0-0.5MS	ALUMINUM	611	863	75.00-125.00	-	ALUMINUM	
SL-283-SA6-SS-0.0-0.5MSD	CALCIUM	287	386	75.00-125.00	-	CALCIUM	
(SL-282-SA6-SB-2.5-3.5	MAGNESIUM	-	200	75.00-125.00	-	MAGNESIUM	
SL -282-SA6-SS-0.0-0.5	PHOSPHORUS	128	-	75.00-125.00	-	PHOSPHORUS	
SL -283-SA6-SB-14.0-15.0	TITANIUM	168	265	75.00-125.00	-	TITANIUM	
SL -283-SA6-SB-18.0-19.0 SL -283-SA6-SB-4.0-5.0 SL -283-SA6-SB-9.0-10.0 SL -283-SA6-SS-0.0-0.5 SL -284-SA6-SB-14.0-15.0 SL -284-SA6-SB-15.5-16.5 SL -284-SA6-SB-4.0-5.0 SL -284-SA6-SB-9.0-10.0 SL -284-SA6-SS-0.0-0.5 SL -285-SA6-SB-4.0-5.0 SL -285-SA6-SS-0.0-0.5)							J(all detects) Al, Ca, Mg, Ti, No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_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-283-SA6-SS-0.0-0.5MS	IRON	-2297	-1472	75.00-125.00	-	IRON	
SL-283-SA6-SS-0.0-0.5MSD	MANGANESE	-31	6	75.00-125.00	-	MANGANESE	
(SL-282-SA6-SB-2.5-3.5							
SL-282-SA6-SS-0.0-0.5							
SL-283-SA6-SB-14.0-15.0							
SL-283-SA6-SB-18.0-19.0							
SL-283-SA6-SB-4.0-5.0							
SL-283-SA6-SB-9.0-10.0							No Qual, >4x
SL-283-SA6-SS-0.0-0.5							
SL-284-SA6-SB-14.0-15.0							
SL-284-SA6-SB-15.5-16.5							
SL-284-SA6-SB-4.0-5.0							
SL-284-SA6-SB-9.0-10.0							
SL-284-SA6-SS-0.0-0.5							
SL-285-SA6-SB-4.0-5.0							
SL-285-SA6-SS-0.0-0.5)							

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-283-SA6-SS-0.0-0.5MS	2-METHYLNAPHTHALENE	106	-	64.00-103.00	-	2-METHYLNAPHTHALENE	
SL-283-SA6-SS-0.0-0.5MSD	ANTHRACENE	118	118	73.00-115.00	-	ANTHRACENE	
(SL-283-SA6-SS-0.0-0.5)	BENZO(A)ANTHRACENE	131	-	59.00-128.00	-	BENZO(A)ANTHRACENE	
	BENZO(A)PYRENE	-	143	58.00-142.00	-	BENZO(A)PYRENE	
	BENZO(B)FLUORANTHENE	192	208	54.00-163.00	-	BENZO(B)FLUORANTHENE	
	BIS(2-ETHYLHEXYL)PHTHALAT	170	729	39.00-167.00	124 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	J(all detects)
	Butylbenzylphthalate	-	174	57.00-173.00	-	Butylbenzylphthalate	
	CHRYSENE	154	152	48.00-134.00	-	CHRYSENE	
	Diethylphthalate	139	142	70.00-136.00	-	Diethylphthalate	
	Dimethylphthalate	148	148	74.00-118.00	-	Dimethylphthalate	
	Di-n-butylphthalate	-	167	65.00-148.00	-	Di-n-butylphthalate	
	NAPHTHALENE	108	-	61.00-102.00	-	NAPHTHALENE	

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-285-SA6-SB-6.0-7.0MS	ALUMINUM	569	-	75.00-125.00	-	ALUMINUM	No Qual, >4x
(SL-285-SA6-SB-6.0-7.0)							
SL-285-SA6-SB-6.0-7.0MS	IRON	-1228	-1709	75.00-125.00	-	IRON	
SL-285-SA6-SB-6.0-7.0MSD	MAGNESIUM	17	-136	75.00-125.00	-	MAGNESIUM	No Qual, >4x
(SL-285-SA6-SB-6.0-7.0)	MANGANESE	35	-5	75.00-125.00	-	MANGANESE	
SL-285-SA6-SB-6.0-7.0MS	CALCIUM	169	67	75.00-125.00	-	CALCIUM	J(all detects)
SL-285-SA6-SB-6.0-7.0MSD	PHOSPHORUS	-	57	75.00-125.00	-	PHOSPHORUS	UJ(all non-detects)
(SL-285-SA6-SB-6.0-7.0)	TITANIUM	156	41	75.00-125.00	-	TITANIUM	Ca, Ti, No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_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-284-SA6-SS-0.0-0.5MS (SL-284-SA6-SB-14.0-15.0 SL -284-SA6-SB-15.5-16.5 SL -284-SA6-SB-4.0-5.0 SL -284-SA6-SB-9.0-10.0 SL -284-SA6-SS-0.0-0.5)	FLUORIDE	76	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-284-SA6-SS-0.0-0.5DUP (SL-284-SA6-SB-14.0-15.0 SL -284-SA6-SB-15.5-16.5 SL -284-SA6-SB-4.0-5.0 SL -284-SA6-SB-9.0-10.0 SL -284-SA6-SS-0.0-0.5)	FLUORIDE	23	20.00	No Qual, OK by Difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-285-SA6-SB-6.0-7.0DUP (SL-285-SA6-SB-6.0-7.0)	Zirconium	31	20.00	No Qual, OK by Difference

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-283-SA6-SS-0.0-0.5DUP (SL-282-SA6-SB-2.5-3.5 SL -282-SA6-SS-0.0-0.5 SL -283-SA6-SB-14.0-15.0 SL -283-SA6-SB-18.0-19.0 SL -283-SA6-SB-4.0-5.0 SL -283-SA6-SB-9.0-10.0 SL -283-SA6-SS-0.0-0.5 SL -285-SA6-SB-4.0-5.0 SL -285-SA6-SB-6.0-7.0 SL -285-SA6-SS-0.0-0.5)	FLUORIDE	21	20.00	No Qual, OK by Difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-283-SA6-SS-0.0-0.5DUP (SL-282-SA6-SB-2.5-3.5 SL -282-SA6-SS-0.0-0.5 SL -283-SA6-SB-14.0-15.0 SL -283-SA6-SB-18.0-19.0 SL -283-SA6-SB-4.0-5.0 SL -283-SA6-SB-9.0-10.0 SL -283-SA6-SS-0.0-0.5 SL -284-SA6-SB-14.0-15.0 SL -284-SA6-SB-15.5-16.5 SL -284-SA6-SB-4.0-5.0 SL -284-SA6-SB-9.0-10.0 SL -284-SA6-SS-0.0-0.5 SL -285-SA6-SB-4.0-5.0 SL -285-SA6-SS-0.0-0.5)	Zirconium	79	20.00	No Qual, OK by Difference

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

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-283-SA6-SS-0.0-0.5DUP	ANTIMONY	200	20.00	
(SL-282-SA6-SB-2.5-3.5	BARIUM	27	20.00	
SL -282-SA6-SS-0.0-0.5	COPPER	26	20.00	
SL -283-SA6-SB-14.0-15.0	LEAD	50	20.00	
SL -283-SA6-SB-18.0-19.0	MOLYBDENUM	34	20.00	
SL -283-SA6-SB-4.0-5.0	SELENIUM	68	20.00	J(all detects)
SL -283-SA6-SB-9.0-10.0	SILVER	33	20.00	UJ(all non-detects)
SL -283-SA6-SS-0.0-0.5	THALLIUM	24	20.00	
SL -284-SA6-SB-14.0-15.0				
SL -284-SA6-SB-15.5-16.5				
SL -284-SA6-SB-4.0-5.0				
SL -284-SA6-SB-9.0-10.0				
SL -284-SA6-SS-0.0-0.5				Sb, Se, Ag, Tl,
SL -285-SA6-SB-4.0-5.0				No Qual,
SL -285-SA6-SB-6.0-7.0				OK by Difference
SL -285-SA6-SS-0.0-0.5)				

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WALCSY261135 (EB-SA6-SB-113011 TB -113011)	N-NITROSODIMETHYLAMINE	-	63	70.00-130.00	-	N-NITROSODIMETHYLAMINE	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
P33926BQ221250A (SL-282-SA6-SB-2.5-3.5 SL -282-SA6-SS-0.0-0.5 SL -283-SA6-SB-14.0-15.0 SL -283-SA6-SB-18.0-19.0 SL -283-SA6-SB-4.0-5.0 SL -283-SA6-SB-9.0-10.0 SL -283-SA6-SS-0.0-0.5 SL -284-SA6-SB-14.0-15.0 SL -284-SA6-SB-15.5-16.5 SL -284-SA6-SB-4.0-5.0 SL -284-SA6-SB-9.0-10.0 SL -284-SA6-SS-0.0-0.5 SL -285-SA6-SB-4.0-5.0 SL -285-SA6-SB-6.0-7.0 SL -285-SA6-SS-0.0-0.5)	ANTIMONY	74	-	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
P34108AQ220349 (SL-285-SA6-SB-6.0-7.0)	IRON	79	-	80.00-120.00	-	IRON	No Qual, SRM within Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-113011	N-Nitrosodimethylamine-d6	244	50.00-150.00	All Target Analytes	J (all detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-283-SA6-SS-0.0-0.5	TETRACHLORO-M-XYLENE	20	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-283-SA6-SS-0.0-0.5RLLCS	TETRACHLORO-M-XYLENE	31	50.00-130.00	All Target Analytes	Not Validated
SL-283-SA6-SS-0.0-0.5RLMS	TETRACHLORO-M-XYLENE	37	50.00-130.00	All Target Analytes	Not Validated
SL-284-SA6-SS-0.0-0.5	TETRACHLORO-M-XYLENE	24	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-282-SA6-SB-2.5-3.5	DECACHLOROBIPHENYL	124	45.00-120.00	All Target Analytes	J(all detects)
SL-283-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL	142	45.00-120.00	All Target Analytes	J(all detects)
SL-284-SA6-SB-15.5-16.5	DECACHLOROBIPHENYL	122	45.00-120.00	All Target Analytes	J(all detects)

Method: 8270C
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-284-SA6-SB-15.5-16.5	2,4,6-TRIBROMOPHENOL	33	35.00-130.00	No Affected Compounds	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
MOISTURE	8.7	7.500000000	15		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
FLUORIDE	2.6	1.900000000	31	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
ALUMINUM	13200	13000.000000000	2	50.00	
BORON	5.40	4.710000000	14	50.00	
CALCIUM	4590	4030.000000000	13	50.00	
IRON	22000	19900.000000000	10	50.00	
LITHIUM	19.0	20.300000000	7	50.00	
MAGNESIUM	4180	4380.000000000	5	50.00	
MANGANESE	266	277.000000000	4	50.00	No Qualifiers Applied
PHOSPHORUS	473	424.000000000	11	50.00	
POTASSIUM	2370	2470.000000000	4	50.00	
SODIUM	171	215.000000000	23	50.00	
STRONTIUM	26.1	24.100000000	8	50.00	
TITANIUM	963	975.000000000	1	50.00	
Zirconium	2.39	3.080000000	25	50.00	
TIN	11.5	2.460000000	130	50.00	J(all detects)

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
ANTIMONY	0.116	0.088100000	27	50.00	
ARSENIC	4.41	4.740000000	7	50.00	
BARIUM	121	104.000000000	15	50.00	
BERYLLIUM	0.641	0.678000000	6	50.00	
CADMIUM	0.272	0.208000000	27	50.00	
CHROMIUM	20.1	21.800000000	8	50.00	
COBALT	7.10	7.020000000	1	50.00	
COPPER	13.0	12.100000000	7	50.00	
LEAD	12.9	11.600000000	11	50.00	No Qualifiers Applied
MOLYBDENUM	3.21	2.220000000	36	50.00	
NICKEL	13.2	13.900000000	5	50.00	
SELENIUM	0.635	0.733000000	14	50.00	
SILVER	0.0445	0.039800000	11	50.00	
THALLIUM	0.238	0.292000000	20	50.00	
VANADIUM	41.2	42.400000000	3	50.00	
ZINC	107	126.000000000	16	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
HEXAVALENT CHROMIUM	0.33	0.280000000	16	50.00	No Qualifiers Applied

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
MERCURY	2.87	1.620000000	56	50.00	J(all detects)

Method: 8015B
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
METHANOL	130	130.000000000	0	50.00	No Qualifiers Applied

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
EFH (C21-C30)	180	60.000000000	100	50.00	J(all detects)
EFH (C30-C40)	800	260.000000000	102	50.00	

Method: 8081A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
4,4'-DDE	0.11	0.370000000 U	200	50.00	
4,4'-DDT	0.50 U	0.270000000	200	50.00	
DIELDRIN	0.11	0.210000000	62	50.00	J(all detects)
ENDOSULFAN II	0.37 U	0.100000000	200	50.00	UJ(all non-detects)
ENDRIN ALDEHYDE	0.37 U	0.240000000	200	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
AROCLOR 1254	1.9 U	6.600000000	200	50.00	
AROCLOR 1260	5.9	13.000000000	75	50.00	J(all detects)
Aroclor 5460	17	7.400000000	79	50.00	UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE290 **Laboratory: LL**

EDD Filename: DE290_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8151A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
2,4,5-TP (Silvex)	0.11	0.096000000	14	50.00	No Qualifiers Applied
MCPA	340 U	140.000000000	200	50.00	J(all detects)
MCPP	140	270.000000000 U	200	50.00	UJ(all non-detects)

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
ANTHRACENE	910 U	26.000000000	200	50.00	J(all detects) UJ(all non-detects)
BENZO(A)PYRENE	910 U	21.000000000	200	50.00	
BENZO(B)FLUORANTHENE	910 U	32.000000000	200	50.00	
BENZO(G,H,I)PERYLENE	910 U	83.000000000	200	50.00	
BIS(2-ETHYLHEXYL)PHTHALATE	1800 U	34.000000000	200	50.00	
CHRYSENE	910 U	29.000000000	200	50.00	
INDENO(1,2,3-CD)PYRENE	910 U	50.000000000	200	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
PH	8.66	8.750000000	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE290 Laboratory: LL

EDD Filename: DE290_v1 eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-284-SA6-SB-15.5-16.5	FLUORIDE	J	1.1	1.2	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-282-SA6-SB-2.5-3.5	TIN	J	3.51	11.2	PQL	mg/Kg	J (all detects)
SL-282-SA6-SS-0.0-0.5	TIN	J	2.65	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.47	5.20	PQL	mg/Kg	
SL-283-SA6-SB-14.0-15.0	BORON	J	4.22	5.38	PQL	mg/Kg	J (all detects)
	SODIUM	J	85.9	108	PQL	mg/Kg	
	TIN	J	2.70	10.8	PQL	mg/Kg	
	Zirconium	J	2.66	5.38	PQL	mg/Kg	
SL-283-SA6-SB-18.0-19.0	BORON	J	4.19	5.47	PQL	mg/Kg	J (all detects)
	TIN	J	2.82	10.9	PQL	mg/Kg	
	Zirconium	J	4.38	5.47	PQL	mg/Kg	
SL-283-SA6-SB-4.0-5.0	TIN	J	2.61	10.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.28	5.16	PQL	mg/Kg	
SL-283-SA6-SB-9.0-10.0	BORON	J	4.80	5.36	PQL	mg/Kg	J (all detects)
	SODIUM	J	96.3	107	PQL	mg/Kg	
	TIN	J	2.62	10.7	PQL	mg/Kg	
	Zirconium	J	3.56	5.36	PQL	mg/Kg	
SL-283-SA6-SS-0.0-0.5	BORON	J	4.88	5.22	PQL	mg/Kg	J (all detects)
	TIN	J	2.71	10.4	PQL	mg/Kg	
	Zirconium	J	2.24	5.22	PQL	mg/Kg	
SL-284-SA6-SB-14.0-15.0	BORON	J	5.36	5.56	PQL	mg/Kg	J (all detects)
	TIN	J	2.94	11.1	PQL	mg/Kg	
	Zirconium	J	3.65	5.56	PQL	mg/Kg	
SL-284-SA6-SB-15.5-16.5	BORON	J	4.71	5.49	PQL	mg/Kg	J (all detects)
	TIN	J	2.73	11.0	PQL	mg/Kg	
	Zirconium	J	3.96	5.49	PQL	mg/Kg	
SL-284-SA6-SB-4.0-5.0	BORON	J	4.67	5.42	PQL	mg/Kg	J (all detects)
	TIN	J	2.60	10.8	PQL	mg/Kg	
	Zirconium	J	2.74	5.42	PQL	mg/Kg	
SL-284-SA6-SB-9.0-10.0	BORON	J	3.80	5.16	PQL	mg/Kg	J (all detects)
	TIN	J	2.58	10.3	PQL	mg/Kg	
	Zirconium	J	3.18	5.16	PQL	mg/Kg	
SL-284-SA6-SS-0.0-0.5	BORON	J	5.40	5.42	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.39	5.42	PQL	mg/Kg	
SL-285-SA6-SB-4.0-5.0	BORON	J	3.18	5.05	PQL	mg/Kg	J (all detects)
	SODIUM	J	83.0	101	PQL	mg/Kg	
	TIN	J	2.60	10.1	PQL	mg/Kg	
SL-285-SA6-SB-6.0-7.0	TIN	J	2.71	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.36	5.11	PQL	mg/Kg	
SL-285-SA6-SS-0.0-0.5	TIN	J	2.95	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.36	5.18	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE290 **Laboratory: LL**

EDD Filename: DE290_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-282-SA6-SB-2.5-3.5	ANTIMONY	J	0.123	0.217	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0657	0.109	PQL	mg/Kg	
	SELENIUM	J	0.186	0.435	PQL	mg/Kg	
	SILVER	J	0.0317	0.109	PQL	mg/Kg	
SL-282-SA6-SS-0.0-0.5	ANTIMONY	J	0.0943	0.210	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.115	0.420	PQL	mg/Kg	
	SILVER	J	0.0579	0.105	PQL	mg/Kg	
SL-283-SA6-SB-14.0-15.0	SILVER	J	0.0306	0.108	PQL	mg/Kg	J (all detects)
SL-283-SA6-SB-18.0-19.0	SELENIUM	J	0.0660	0.429	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0730	0.107	PQL	mg/Kg	
SL-283-SA6-SB-4.0-5.0	CADMIUM	J	0.0973	0.106	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.138	0.425	PQL	mg/Kg	
	SILVER	J	0.0307	0.106	PQL	mg/Kg	
SL-283-SA6-SB-9.0-10.0	CADMIUM	J	0.0658	0.107	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0701	0.429	PQL	mg/Kg	
	SILVER	J	0.0544	0.107	PQL	mg/Kg	
SL-283-SA6-SS-0.0-0.5	ANTIMONY	J	0.122	0.205	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.273	0.410	PQL	mg/Kg	
	SILVER	J	0.0524	0.102	PQL	mg/Kg	
SL-284-SA6-SB-14.0-15.0	SELENIUM	J	0.0673	0.449	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0721	0.112	PQL	mg/Kg	
SL-284-SA6-SB-15.5-16.5	ANTIMONY	J	0.0912	0.218	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0704	0.109	PQL	mg/Kg	
	SELENIUM	J	0.0750	0.435	PQL	mg/Kg	
	SILVER	J	0.0759	0.109	PQL	mg/Kg	
SL-284-SA6-SB-4.0-5.0	CADMIUM	J	0.0735	0.105	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.119	0.421	PQL	mg/Kg	
	SILVER	J	0.0335	0.105	PQL	mg/Kg	
SL-284-SA6-SS-0.0-0.5	ANTIMONY	J	0.116	0.213	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0445	0.106	PQL	mg/Kg	
SL-285-SA6-SB-4.0-5.0	CADMIUM	J	0.0791	0.100	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0694	0.400	PQL	mg/Kg	
SL-285-SA6-SB-6.0-7.0	CADMIUM	J	0.0558	0.104	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.201	0.417	PQL	mg/Kg	
	SILVER	J	0.0187	0.104	PQL	mg/Kg	
SL-285-SA6-SS-0.0-0.5	ANTIMONY	J	0.101	0.211	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.241	0.422	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-282-SA6-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.34	1.1	PQL	mg/Kg	J (all detects)
SL-282-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.36	1.0	PQL	mg/Kg	J (all detects)
SL-283-SA6-SB-14.0-15.0	HEXAVALENT CHROMIUM	J	0.52	1.1	PQL	mg/Kg	J (all detects)
SL-283-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.65	1.1	PQL	mg/Kg	J (all detects)
SL-283-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.33	1.0	PQL	mg/Kg	J (all detects)
SL-283-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.32	1.0	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: DE290 **Laboratory: LL**

EDD Filename: DE290_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-284-SA6-SB-14.0-15.0	HEXAVALENT CHROMIUM	J	0.37	1.1	PQL	mg/Kg	J (all detects)
SL-284-SA6-SB-15.5-16.5	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)
SL-284-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.24	1.1	PQL	mg/Kg	J (all detects)
SL-284-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.33	1.1	PQL	mg/Kg	J (all detects)
SL-285-SA6-SB-6.0-7.0	HEXAVALENT CHROMIUM	J	0.37	1.1	PQL	mg/Kg	J (all detects)
SL-285-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.58	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-282-SA6-SB-2.5-3.5	MERCURY	J	0.0122	0.111	PQL	mg/Kg	J (all detects)
SL-284-SA6-SB-14.0-15.0	MERCURY	J	0.0117	0.107	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-284-SA6-SS-0.0-0.5	METHANOL	J	130	550	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-282-SA6-SB-2.5-3.5	EFH (C21-C30)	J	1.3	1.7	PQL	mg/Kg	J (all detects)
SL-283-SA6-SB-14.0-15.0	EFH (C15-C20)	J	0.56	1.4	PQL	mg/Kg	J (all detects)
SL-283-SA6-SB-18.0-19.0	EFH (C21-C30) GASOLINE RANGE ORGANICS (C5-C12)	J J	1.3 0.3	1.7 1.1	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-284-SA6-SB-14.0-15.0	EFH (C30-C40)	J	0.83	1.6	PQL	mg/Kg	J (all detects)
SL-284-SA6-SB-4.0-5.0	EFH (C21-C30)	J	0.91	1.5	PQL	mg/Kg	J (all detects)
SL-284-SA6-SB-9.0-10.0	GASOLINE RANGE ORGANICS (C5-C12)	J	0.6	0.9	PQL	mg/Kg	J (all detects)
SL-285-SA6-SB-4.0-5.0	EFH (C21-C30)	J	0.84	1.6	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-282-SA6-SS-0.0-0.5	4,4'-DDE ENDOSULFAN II	J J	0.27 0.12	0.36 0.36	PQL PQL	ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE290 **Laboratory: LL**

EDD Filename: DE290_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-283-SA6-SS-0.0-0.5	ENDRIN ALDEHYDE	J	0.22	0.36	PQL	ug/Kg	J (all detects)
SL-284-SA6-SS-0.0-0.5	4,4'-DDE	J	0.11	0.37	PQL	ug/Kg	J (all detects)
	DIELDRIN	J	0.11	0.37	PQL	ug/Kg	
SL-285-SA6-SS-0.0-0.5	HEPTACHLOR EPOXIDE	J	0.14	0.18	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-285-SA6-SS-0.0-0.5	AROCLOR 1260	J	1.6	1.8	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-282-SA6-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.15	0.18	PQL	ug/Kg	J (all detects)
	MCPA	J	100	260	PQL	ug/Kg	
	MCPP	J	110	260	PQL	ug/Kg	
SL-283-SA6-SS-0.0-0.5	MCPA	J	110	270	PQL	ug/Kg	J (all detects)
SL-284-SA6-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.11	0.19	PQL	ug/Kg	J (all detects)
	MCPP	J	140	270	PQL	ug/Kg	

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-285-SA6-SB-4.0-5.0	CHLOROFORM	J	0.19	3.9	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	1.5	3.9	PQL	ug/Kg	
	TOLUENE	J	0.09	3.9	PQL	ug/Kg	
SL-285-SA6-SB-6.0-7.0	CHLOROFORM	J	0.25	4.5	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	1.7	4.5	PQL	ug/Kg	
	TOLUENE	J	0.17	4.5	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE290 **Laboratory: LL**

EDD Filename: DE290_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-282-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	92	180	PQL	ug/Kg	
	BENZO(A)PYRENE	J	84	180	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	110	180	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	63	180	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	51	180	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	140	350	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	84	180	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	24	180	PQL	ug/Kg	
	FLUORANTHENE	J	130	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	53	180	PQL	ug/Kg	
	PYRENE	J	140	180	PQL	ug/Kg	
SL-283-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	360	PQL	ug/Kg	J (all detects)
SL-284-SA6-SB-14.0-15.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	370	PQL	ug/Kg	J (all detects)
SL-285-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	360	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-283-SA6-SB-18.0-19.0	Di-n-butylphthalate	J	11	20	PQL	ug/Kg	J (all detects)
SL-284-SA6-SB-15.5-16.5	BENZO(B)FLUORANTHENE	J	1.3	1.9	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.0	1.9	PQL	ug/Kg	
SL-285-SA6-SB-6.0-7.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.8	19	PQL	ug/Kg	J (all detects)

Method: 8315A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-285-SA6-SB-6.0-7.0	FORMALDEHYDE	J	810	1600	PQL	ug/Kg	J (all detects)

LDC #: 27083B4 **VALIDATION COMPLETENESS WORKSHEET** Date: 2/9/12
SDG #: DE290 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

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)	N A	
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Cr, Co, Zn J/UJ/A
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	~~FB = 1~~ [illegible]

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-285-SA6-SS-0.0-0.5	11	SL-284-SA6-SS-0.0-0.5	21	#3 MSD (6010B)	31	
2	SL-285-SA6-SB-4.0-5.0	12	SL-284-SA6-SB-4.0-5.0	22	#3 DUP ✓	32	
3	SL-285-SA6-SB-6.0-7.0	13	SL-284-SA6-SB-9.0-10.0	23		33	
4	SL-282-SA6-SS-0.0-0.5	14	SL-284-SA6-SB-14.0-15.0	24		34	
5	SL-282-SA6-SB-2.5-3.5	15	SL-284-SA6-SB-15.5-16.5	25		35	
6	SL-283-SA6-SS-0.0-0.5	16	~~EB-SA6-SB-113011~~ ✓	26		36	
7	SL-283-SA6-SB-4.0-5.0	17	SL-283-SA6-SS-0.0-0.5MS	27		37	
8	SL-283-SA6-SB-9.0-10.0	18	SL-283-SA6-SS-0.0-0.5MSD	28		38	
9	SL-283-SA6-SB-14.0-15.0	19	SL-283-SA6-SS-0.0-0.5DUP	29		39	
10	SL-283-SA6-SB-18.0-19.0	20	#3 MS (6010B)	30		40	

Notes: _____

LDC #: 27083B4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Sample Concentration units, unless otherwise noted: mg/Kg
Soil preparation factor applied: 200X
Associated Samples: All SV 1-11-15 Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	2	4	5	6	11	15	12	13	14		
Sb			0.30	0.30	0.1P		0.094	0.12	0.12	0.12	0.091					
As			0.47	0.47												
Be			0.053	0.053												
Mo			0.33	0.33		0.32				~~2.4~~		~~2.9~~				
SV			9.2	4.6						2.4	4.0	2.9	3.2	3.6		

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.

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QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE290
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6487630BKG Matrix Spike Lab Sample ID: 6487631MS Matrix Spike Duplicate Lab Sample ID: 6487632MSD
% Solids for Sample: 93.9
Batch Id(s): P33908B, P33926B, P33911C

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	RPD	M
Aluminum		14245.2118		15495.8671		16030.6782		204.8005	206.7889	MG/KG	611		863		3		74X	20	P
Antimony	121	0.1221	B	0.6728		0.5951		1.2780	1.2653	MG/KG	43	N	37	N	12		75 - 125	20	MS
Arsenic	75	4.4892		10.3898		7.9630		2.1299	2.1088	MG/KG	277	N	165	N	26	*	75 - 125	20	MS
Barium	137	108.7900		167.3269		122.4813		10.6496	10.5442	MG/KG	550		130		31	*	74X	20	MS
Beryllium	9	0.5085		2.2492		1.5188		0.8520	0.8435	MG/KG	204	N	120		39	*	75 - 125	20	MS
Boron		4.8842	B	206.1717		209.2393		204.8005	206.7889	MG/KG	98		99		1		84 - 115	20	P
Cadmium	111	0.2449		2.2428		1.5789		1.0650	1.0544	MG/KG	188	N	127	N	35	*	75 - 125	20	MS
Calcium		4940.2337		6114.9504		6536.5303		409.6010	413.5778	MG/KG	287		386		7		74X	20	P
Chromium	52	19.0813		47.0501		35.3863		10.6496	10.5442	MG/KG	263	N	155	N	28	*	75 - 125	20	MS
Cobalt	59	7.1721		108.6262		74.7583		53.2481	52.7209	MG/KG	191	N	128	N	37	*	75 - 125	20	MS
Copper	63	12.6710		40.0852		26.9720		10.6496	10.5442	MG/KG	257	N	136	N	39	*	75 - 125	20	MS
Iron		22267.7442		19916.0615		20745.9144		102.4003	103.3944	MG/KG	-2297		-1472		4		74X	20	P
Lead	208	10.8729		21.3845		13.3384		3.1949	3.1633	MG/KG	329	N	78		46	*	75 - 125	20	MS
Lithium		22.7202		125.0655		124.3928		102.4003	103.3944	MG/KG	100		98		1		82 - 114	20	P
Magnesium		5174.5589		5373.6473		5587.4448		204.8005	206.7889	MG/KG	97		200		4		74X	20	P
Manganese		327.9626		311.9573		331.1331		51.2001	51.6972	MG/KG	-31		6		6		J	20	P
Mercury		0.5625		0.7402		0.6844		0.1678	0.1750	MG/KG	106		70		8		65 - 135	20	CV
Molybdenum	98	0.9749		20.0703		14.1355		10.6496	10.5442	MG/KG	179	N	125		35	*	75 - 125	20	MS
Nickel	60	13.2096		40.5112		28.5115		10.6496	10.5442	MG/KG	256	N	145	N	35	*	75 - 125	20	MS
Phosphorus		391.6547		522.5342		513.4433		102.4003	103.3944	MG/KG	128	N	118		2		75 - 125	20	P
Potassium		2630.8724		3703.1345		3676.1541		1024.0026	1033.9444	MG/KG	105		101		1		75 - 125	20	P
Selenium	78	0.2732	B	3.0607		3.0388		2.1299	2.1088	MG/KG	131	N	131	N	1		75 - 125	20	MS
Silver	107	0.0524	B	18.6794		13.1191		10.6496	10.5442	MG/KG	175	N	124		35	*	75 - 125	20	MS
Sodium		147.2447		1148.9402		1161.3026		1024.0026	1033.9444	MG/KG	98		98		1		75 - 125	20	P
Strontium		21.1040		126.2134		126.7182		102.4003	103.3944	MG/KG	103		102		0		75 - 115	20	P
Thallium	203	0.2630		1.1240		0.8378		0.4260	0.4218	MG/KG	202	N	136	N	29	*	75 - 125	20	MS
Tin		2.7115	B	379.0755		372.6635		409.6010	413.5778	MG/KG	92		89		2		80 - 110	20	P
Titanium		1099.4727		1271.5245		1373.9539		102.4003	103.3944	MG/KG	168		265		8		74X	20	P
Vanadium	51	40.2638		77.3376		60.4182		10.6496	10.5442	MG/KG	348	N	191	N	25	*	75 - 125	20	MS
Zinc	66	73.5439		124.3024		96.0997		10.6496	10.5442	MG/KG	477		214		26	*	74X	20	MS
Zirconium		2.2364	B	104.7084		107.6925		102.4003	103.3944	MG/KG	100		102		3		81 - 110	20	P

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

MP2 1, 2, 4-15 (P Tot)

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QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE290
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6487627BKG Matrix Spike Lab Sample ID: 6487627MS Matrix Spike Duplicate Lab Sample ID: 6487627MSD
% Solids for Sample: 94.1
Batch Id(s): P34108A

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		10687.6012		11862.5166		10939.2187		206.3494	202.4189	MG/KG	569		124		8		7.4X	20	P
Boron		6.3486		198.6515		194.2412		206.3494	202.4189	MG/KG	93		93		2		84 - 115	20	P
Calcium		2569.7386		3266.1267		2840.0617		412.6987	404.8378	MG/KG	169		67		14		74X	20	P
Iron		17233.1358		15965.7171		15503.0079		103.1747	101.2095	MG/KG	-1228		-1709		3		V	20	P
Lithium		19.7499		116.9526		113.9214		103.1747	101.2095	MG/KG	94		93		3		82 - 114	20	P
Manganese		278.2903		296.4467		275.9385		51.5873	50.6047	MG/KG	17		-136		9		74X	20	P
Phosphorus		320.4018		412.3139		378.4778		103.1747	101.2095	MG/KG	35		-5		7		J	20	P
Potassium		2718.5043		3786.5955		3517.8969		1031.7469	1012.0945	MG/KG	89		57	N	9		75 - 125	20	P
Sodium		211.8573		1216.6906		1188.9368		1031.7469	1012.0945	MG/KG	104		79		7		75 - 125	20	P
Strontium		12.7125		111.6464		108.0300		103.1747	101.2095	MG/KG	97		97		2		75 - 125	20	P
Tin		2.7150	B	371.3092		366.7982		412.6987	404.8378	MG/KG	96		94		3		75 - 115	20	P
Titanium		1013.7364		1175.0874		1054.8849		103.1747	101.2095	MG/KG	89		90		1		80 - 110	20	P
Zirconium		2.3594	B	102.8383		101.0344		103.1747	101.2095	MG/KG	156		41		11		74X	20	P
											97		97		2		81 - 110	20	P

#3 only

P(J/UJ)

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

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QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE290
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6487630BKG
% Solids for Duplicate: 93.7
Batch ID(s): P33908B, P33926B, P33911C
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6487633DUP
% Solids for Sample: 93.9

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M	
Aluminum			14245.2118		13384.2158		6		P	
Antimony	121		0.1221	B	0.0758	U	200		MS	<5X
Arsenic	75		4.4892		4.1677		7		MS	
Barium	137		108.7900		82.6985		27	*	MS	
Beryllium	9	0.1	0.5085		0.4954		3		MS	
Boron			4.8842	B	4.1265	B	17		P	
Cadmium	111	0.1	0.2449		0.2081		16		MS	
Calcium			4940.2337		5945.6621		18		P	
Chromium	52		19.0813		16.8387		12		MS	
Cobalt	59		7.1721		6.0396		17		MS	
Copper	63		12.6710		9.7649		26	*	MS	
Iron			22267.7442		20794.3112		7		P	
Lead	208		10.8729		6.5393		50	*	MS	
Lithium			22.7202		21.5557		5		P	
Magnesium			5174.5589		5263.5152		2		P	
Manganese			327.9626		274.9237		18		P	
Mercury		0.1	0.5625		0.5087		10		CV	
Molybdenum	98		0.9749		0.6914		34	*	MS	
Nickel	60		13.2096		11.7883		11		MS	
Phosphorus			391.6547		406.9967		4		P	
Potassium			2630.8724		2579.6354		2		P	
Selenium	78	0.4	0.2732	B	0.5544		68		MS	<5X J
Silver	107		0.0524	B	0.0375	B	33		MS	
Sodium		104.4	147.2447		144.9766		2		P	
Strontium			21.1040		22.5172		6		P	
Thallium	203	0.1	0.2630		0.2075		24		MS	<5X
Tin			2.7115	B	2.5538	B	6		P	
Titanium			1099.4727		1091.0088		1		P	
Vanadium	51		40.2638		35.4510		13		MS	
Zinc	66		73.5439		61.9522		17		MS	
Zirconium			2.2364	B	5.1832		79		P	<5X

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.

~~(60/0B) 40P = 1, 2, 4, 15~~ Ba, Cu, Pb, Mo,
Find All Sample
DE290 5478

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

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QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE290
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6487627BKG
% Solids for Duplicate: 94.1
Batch ID(s): P34108A
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6487627DUP
% Solids for Sample: 94.1

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			10687.6012		11036.9830		3		P
Boron		5.1	6.3486		6.9760		9		P
Calcium			2569.7386		2399.4646		7		P
Iron			17233.1358		17298.0739		0		P
Lithium			19.7499		18.5175		6		P
Magnesium			3720.6685		3488.1448		6		P
Manganese			278.2903		274.9561		1		P
Phosphorus			320.4018		320.8269		0		P
Potassium			2718.5043		2622.0858		4		P
Sodium		102.2	211.8573		172.7714		20		P
Strontium			12.7125		13.1775		4		P
Tin			2.7150	B	2.5719	B	5		P
Titanium			1013.7364		1029.1629		2		P
Zirconium			2.3594	B	3.2249	B	31		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.

Zr Ø <5X N.fail

#3 ok

DE290 2477

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

SAMPLE DELIVERY GROUP

DX110

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
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340984	N	METHOD	1613B	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340995	N	METHOD	1613B	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340990	N	METHOD	1613B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340991	N	METHOD	1613B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340992	MS	METHOD	1613B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340993	MSD	METHOD	1613B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	P340991M371013	MSD	METHOD	1613B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	P340991R370916	MS	METHOD	1613B	III
11-Jul-2011	DUP01-SA6-QC-071111	6340996	FD	METHOD	1613B	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340985	N	METHOD	1613B	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340986	N	METHOD	1613B	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340987	N	METHOD	1613B	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340994	N	METHOD	1613B	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340988	N	METHOD	1613B	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340989	N	METHOD	1613B	III
11-Jul-2011	SL-289-SA6-SS-0.0-0.5	6342345	N	METHOD	1613B	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0	6342337	N	METHOD	1613B	III
12-Jul-2011	SL-136-SA6-SB-9.0-10.0	6342338	N	METHOD	1613B	III
12-Jul-2011	SL-139-SA6-SB-4.0-5.0	6342339	N	METHOD	1613B	III
12-Jul-2011	SL-139-SA6-SB-9.0-10.0	6342340	N	METHOD	1613B	III
12-Jul-2011	SL-275-SA6-SB-4.0-5.0	6342341	N	METHOD	1613B	III
12-Jul-2011	SL-275-SA6-SB-9.0-10.0	6342342	N	METHOD	1613B	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0	6342343	N	METHOD	1613B	III
12-Jul-2011	SL-276-SA6-SB-9.0-10.0	6342344	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX110 **Laboratory:** LL

EDD Filename: PrepDX110_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: DUP01-SA6-QC-071111 ***Collected:*** 7/11/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.936	J	0.100	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-135-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 12:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.458	JB	0.0418	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.177	JBQ	0.0124	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0298	JBQ	0.0264	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0452	JBQ	0.0289	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0268	JBQ	0.0185	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0749	JBQ	0.0289	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0932	JBQ	0.0267	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0542	JBQ	0.0226	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0288	JQ	0.0166	MDL	5.75	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0516	JB	0.0167	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0432	JBQ	0.0169	MDL	5.75	PQL	ng/Kg	U	B
OCDD	0.987	JBQ	0.0373	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.229	JBQ	0.0754	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-136-SA6-SB-4.0-5.0 ***Collected:*** 7/12/2011 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
1,2,3,4,6,7,8-HPCDD	0.805	JB	0.0948	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.173	JBQ	0.0646	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0745	JBQ	0.0395	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0470	JBQ	0.0322	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0716	JB	0.0399	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0280	JBQ	0.0264	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0672	JBQ	0.0391	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0711	JB	0.0375	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0402	JBQ	0.0276	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0550	JBQ	0.0296	MDL	5.40	PQL	ng/Kg	U	B
OCDD	6.26	JB	0.0952	MDL	10.8	PQL	ng/Kg	J	Z
OCDF	0.313	JBQ	0.120	MDL	10.8	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX110 Laboratory: LL

EDD Filename: PrepDX110_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-136-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 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
1,2,3,4,6,7,8-HPCDD	0.681	JB	0.0670	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.165	JBQ	0.0453	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0408	JBQ	0.0293	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0367	JBQ	0.0237	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0359	JB	0.0289	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0419	JB	0.0235	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0646	JBQ	0.0281	MDL	5.40	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0479	JQ	0.0410	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0430	JQ	0.0413	MDL	1.08	PQL	ng/Kg	U	B
OCDD	2.50	JB	0.0934	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.187	JBQ	0.121	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-138-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.493	JB	0.0482	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.129	JB	0.0141	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0361	JBQ	0.0272	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0321	JBQ	0.0235	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0317	JB	0.0251	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0239	JBQ	0.0198	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0571	JBQ	0.0241	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0529	JBQ	0.0177	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0546	JBQ	0.0193	MDL	5.31	PQL	ng/Kg	U	B
OCDD	1.60	JB	0.0466	MDL	10.6	PQL	ng/Kg	U	B
OCDF	0.138	JBQ	0.0932	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-138-SA6-SB-9.0-10.0 *Collected:* 7/11/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.848	JBQ	0.0633	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.272	JB	0.0168	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0574	JBQ	0.0303	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.121	JBQ	0.0329	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.160	JBQ	0.0249	MDL	5.51	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX110 **Laboratory:** LL

EDD Filename: PrepDX110_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-138-SA6-SB-9.0-10.0 *Collected:* 7/11/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.108	JB	0.0341	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0833	JBQ	0.0211	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0675	JBQ	0.0334	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.115	JBQ	0.0290	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.133	JBQ	0.0456	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.176	JQ	0.0221	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.101	JBQ	0.0230	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.191	JB	0.0212	MDL	5.51	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.113	JQ	0.0475	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	4.73	JB	0.0583	MDL	11.0	PQL	ng/Kg	J	Z
OCDF	0.447	JBQ	0.0928	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-139-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 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
1,2,3,4,6,7,8-HPCDD	0.533	JB	0.0585	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.119	JBQ	0.0329	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0511	JBQ	0.0478	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0619	JB	0.0268	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0388	JB	0.0259	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0435	JBQ	0.0261	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0739	JBQ	0.0261	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0410	JB	0.0312	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0602	JBQ	0.0335	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0746	J	0.0229	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0550	JB	0.0259	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.102	JBQ	0.0213	MDL	5.37	PQL	ng/Kg	U	B
OCDD	1.87	JB	0.0932	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.236	JBQ	0.0782	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-139-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.694	JB	0.0588	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.212	JBQ	0.0390	MDL	5.60	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: PrepDX110_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-139-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.0691	JBQ	0.0339	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.102	JBQ	0.0221	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0850	JB	0.0351	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0895	JBQ	0.0212	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0759	JBQ	0.0358	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.119	JBQ	0.0440	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.148	J	0.0238	MDL	5.60	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0599	JBQ	0.0224	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.130	JBQ	0.0231	MDL	5.60	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0755	J	0.0334	MDL	1.12	PQL	ng/Kg	U	B
OCDD	2.45	JB	0.0947	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.163	JBQ	0.0798	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-149-SA5DN-SB-4.0-5.0 *Collected:* 7/11/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.807	JBQ	0.0654	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.251	JB	0.0272	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0619	JB	0.0256	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.109	JBQ	0.0385	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0558	JB	0.0215	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.122	JBQ	0.0382	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0982	JBQ	0.0370	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0310	JQ	0.0213	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0801	JBQ	0.0247	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0580	JB	0.0220	MDL	5.44	PQL	ng/Kg	U	B
OCDD	6.19	JB	0.0920	MDL	10.9	PQL	ng/Kg	J	Z
OCDF	0.518	JBQ	0.118	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-149-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 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
1,2,3,4,7,8,9-HPCDF	1.24	JB	0.0714	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.14	JB	0.0884	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.61	JB	0.0773	MDL	5.02	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX110 Laboratory: LL

EDD Filename: PrepDX110_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-149-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 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
1,2,3,6,7,8-HXCDD	2.65	JB	0.0872	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.993	JB	0.0707	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.87	JB	0.0843	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.434	JBQ	0.0754	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.906	JB	0.0658	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.01	J	0.0680	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.04	JB	0.0614	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.27	JB	0.0626	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.267	J	0.0381	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-199-SA5DN-SB-4.0-5.0 *Collected:* 7/11/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.703	JB	0.0582	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.195	JB	0.0167	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0396	JBQ	0.0355	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0741	JBQ	0.0302	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.188	JB	0.0362	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0407	JBQ	0.0237	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.438	JBQ	0.0370	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.538	JBQ	0.0468	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0889	JBQ	0.0399	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.145	JQ	0.0215	MDL	5.79	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0839	JB	0.0279	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0485	JB	0.0228	MDL	5.79	PQL	ng/Kg	U	B
OCDD	2.11	JB	0.0645	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.264	JB	0.148	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-199-SA5DN-SB-9.0-10.0 *Collected:* 7/11/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.857	JB	0.0599	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.227	JBQ	0.0162	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0376	JBQ	0.0354	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0465	JBQ	0.0213	MDL	5.57	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX110 **Laboratory:** LL

EDD Filename: PrepDX110_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-199-SA5DN-SB-9.0-10.0 *Collected:* 7/11/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.0397	JBQ	0.0321	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0191	JBQ	0.0187	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0660	JBQ	0.0316	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0345	JQ	0.0211	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0487	JBQ	0.0201	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0579	JBQ	0.0220	MDL	5.57	PQL	ng/Kg	U	B
OCDD	3.74	JB	0.0480	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.271	JBQ	0.0989	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-275-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.608	JB	0.0525	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.117	JB	0.0219	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0798	JBQ	0.0542	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0664	JBQ	0.0173	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0785	JBQ	0.0281	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0364	JBQ	0.0139	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.134	JB	0.0283	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0569	JBQ	0.0240	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0324	JQ	0.0168	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0274	JBQ	0.0162	MDL	5.15	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0570	JBQ	0.0175	MDL	5.15	PQL	ng/Kg	U	B
OCDD	2.02	JB	0.0832	MDL	10.3	PQL	ng/Kg	U	B
OCDF	0.224	JBQ	0.0829	MDL	10.3	PQL	ng/Kg	U	B

Sample ID: SL-275-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 12:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.555	JB	0.0452	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.128	JBQ	0.0172	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0396	JBQ	0.0125	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0337	JBQ	0.0257	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0280	JBQ	0.0251	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0257	JBQ	0.0164	MDL	5.45	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX110 **Laboratory:** LL

EDD Filename: PrepDX110_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-275-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 12:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.0393	JBQ	0.0117	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0387	JBQ	0.0163	MDL	5.45	PQL	ng/Kg	U	B
OCDD	2.71	JBQ	0.0624	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.152	JBQ	0.0759	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-276-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 2:25:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.965	JC	0.0894	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: SL-276-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.21	JB	0.111	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.529	JBQ	0.0784	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.46	JB	0.102	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.90	JB	0.0796	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.05	JB	0.101	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.17	JB	0.0766	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.232	JBQ	0.120	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.230	JBQ	0.0587	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.756	JB	0.0986	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.81	JB	0.107	MDL	5.42	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0400	JQ	0.0313	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: SL-276-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.423	JB	0.0407	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0993	JB	0.0144	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0357	JBQ	0.0165	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0291	JBQ	0.0137	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0427	JBQ	0.0154	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0541	JBQ	0.0174	MDL	5.41	PQL	ng/Kg	U	B
OCDD	1.24	JB	0.0631	MDL	10.8	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX110 Laboratory: LL

EDD Filename: PrepDX110_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-276-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.150	JB	0.0822	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-289-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 3:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.92	JB	0.0539	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.300	JBQ	0.0207	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0421	JBQ	0.0149	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0740	JBQ	0.0263	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0267	JBQ	0.0129	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0738	JB	0.0268	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0209	JBQ	0.0196	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0282	JQ	0.0161	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0410	JBQ	0.0143	MDL	4.94	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0424	JBQ	0.0170	MDL	4.94	PQL	ng/Kg	U	B
OCDF	0.493	JB	0.0861	MDL	9.88	PQL	ng/Kg	U	B

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.67	JB	0.181	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.52	JB	0.122	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.55	JB	0.113	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.86	JB	0.122	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.02	JB	0.130	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.04	JB	0.184	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	3.99	J	0.126	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.32	JB	0.107	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	4.57	JB	0.117	MDL	5.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.643	JQ	0.0925	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2850	EB	0.535	MDL	5.04	PQL	ng/Kg	J	*XI

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX110 Laboratory: LL

EDD Filename: PrepDX110_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.939	JQ	0.0911	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	56700	EB	1.02	MDL	10.1	PQL	ng/Kg	J	*XI

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5730	EB	1.09	MDL	5.02	PQL	ng/Kg	J	*XI
OCDD	97400	EB	1.61	MDL	10.0	PQL	ng/Kg	J	*XI

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: PrepDX110_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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
*XI	Compound Quantitation and CRQL
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: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: PrepDX110_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

Data Qualifier Summary

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: PrepDX110_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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX110

Method Blank Outlier Report

Lab Reporting Batch ID: DX110 Laboratory: LL

EDD Filename: DX110_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2030B371855	7/25/2011 6:55:00 PM	1,2,3,4,6,7,8-HPCDD	0.487 ng/Kg	DUP01-SA6-QC-071111
		1,2,3,4,6,7,8-HPCDF	0.198 ng/Kg	SL-135-SA6-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0894 ng/Kg	SL-136-SA6-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0284 ng/Kg	SL-136-SA6-SB-9.0-10.0
		1,2,3,4,7,8-HXCDF	0.0788 ng/Kg	SL-138-SA6-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0466 ng/Kg	SL-138-SA6-SB-9.0-10.0
		1,2,3,6,7,8-HXCDF	0.0517 ng/Kg	SL-139-SA6-SB-4.0-5.0
		1,2,3,7,8,9-HXCDD	0.0580 ng/Kg	SL-139-SA6-SB-9.0-10.0
		1,2,3,7,8,9-HXCDF	0.0495 ng/Kg	SL-149-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDD	0.0396 ng/Kg	SL-149-SA6-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0900 ng/Kg	SL-199-SA5DN-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0844 ng/Kg	SL-199-SA5DN-SB-9.0-10.0
		OCDD	0.904 ng/Kg	SL-275-SA6-SB-4.0-5.0
		OCDF	0.314 ng/Kg	SL-275-SA6-SB-9.0-10.0
				SL-276-SA6-SB-4.0-5.0
				SL-276-SA6-SB-9.0-10.0
				SL-289-SA6-SS-0.0-0.5
				SL-292-SA6-SS-0.0-0.5
				SL-297-SA6-SS-0.0-0.5
				SL-298-SA6-SS-0.0-0.5
BLK2030B372235	7/27/2011 10:35:00 PM	2,3,7,8-TCDF	0.0224 ng/Kg	DUP01-SA6-QC-071111
				SL-135-SA6-SB-4.0-5.0
				SL-136-SA6-SB-4.0-5.0
				SL-136-SA6-SB-9.0-10.0
				SL-138-SA6-SB-4.0-5.0
				SL-138-SA6-SB-9.0-10.0
				SL-139-SA6-SB-4.0-5.0
				SL-139-SA6-SB-9.0-10.0
				SL-149-SA5DN-SB-4.0-5.0
				SL-149-SA6-SS-0.0-0.5
				SL-199-SA5DN-SB-4.0-5.0
				SL-199-SA5DN-SB-9.0-10.0
				SL-275-SA6-SB-4.0-5.0
				SL-275-SA6-SB-9.0-10.0
				SL-276-SA6-SB-4.0-5.0
				SL-276-SA6-SB-9.0-10.0
				SL-289-SA6-SS-0.0-0.5
				SL-292-SA6-SS-0.0-0.5
				SL-297-SA6-SS-0.0-0.5
				SL-298-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-135-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.458 ng/Kg	0.458U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.177 ng/Kg	0.177U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0298 ng/Kg	0.0298U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0452 ng/Kg	0.0452U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0268 ng/Kg	0.0268U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0749 ng/Kg	0.0749U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0932 ng/Kg	0.0932U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0542 ng/Kg	0.0542U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0516 ng/Kg	0.0516U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0432 ng/Kg	0.0432U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	OCDD	0.987 ng/Kg	0.987U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	OCDF	0.229 ng/Kg	0.229U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.805 ng/Kg	0.805U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.173 ng/Kg	0.173U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX110 Laboratory: LL

EDD Filename: DX110_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-136-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0745 ng/Kg	0.0745U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0470 ng/Kg	0.0470U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0716 ng/Kg	0.0716U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0280 ng/Kg	0.0280U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0672 ng/Kg	0.0672U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0711 ng/Kg	0.0711U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0402 ng/Kg	0.0402U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0550 ng/Kg	0.0550U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	OCDF	0.313 ng/Kg	0.313U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.681 ng/Kg	0.681U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.165 ng/Kg	0.165U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0408 ng/Kg	0.0408U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0367 ng/Kg	0.0367U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0359 ng/Kg	0.0359U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0419 ng/Kg	0.0419U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0646 ng/Kg	0.0646U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0430 ng/Kg	0.0430U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	OCDD	2.50 ng/Kg	2.50U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	OCDF	0.187 ng/Kg	0.187U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.493 ng/Kg	0.493U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.129 ng/Kg	0.129U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0361 ng/Kg	0.0361U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0321 ng/Kg	0.0321U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0317 ng/Kg	0.0317U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0239 ng/Kg	0.0239U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0571 ng/Kg	0.0571U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0529 ng/Kg	0.0529U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0546 ng/Kg	0.0546U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	OCDD	1.60 ng/Kg	1.60U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	OCDF	0.138 ng/Kg	0.138U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.848 ng/Kg	0.848U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.272 ng/Kg	0.272U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0574 ng/Kg	0.0574U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.121 ng/Kg	0.121U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.160 ng/Kg	0.160U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.108 ng/Kg	0.108U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0833 ng/Kg	0.0833U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0675 ng/Kg	0.0675U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.115 ng/Kg	0.115U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.133 ng/Kg	0.133U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: DX110_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-138-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.101 ng/Kg	0.101U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.191 ng/Kg	0.191U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	OCDF	0.447 ng/Kg	0.447U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.533 ng/Kg	0.533U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.119 ng/Kg	0.119U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0511 ng/Kg	0.0511U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0619 ng/Kg	0.0619U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0388 ng/Kg	0.0388U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0435 ng/Kg	0.0435U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0739 ng/Kg	0.0739U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0410 ng/Kg	0.0410U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0602 ng/Kg	0.0602U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0550 ng/Kg	0.0550U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.102 ng/Kg	0.102U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	OCDD	1.87 ng/Kg	1.87U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	OCDF	0.236 ng/Kg	0.236U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.694 ng/Kg	0.694U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.212 ng/Kg	0.212U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0691 ng/Kg	0.0691U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0850 ng/Kg	0.0850U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0895 ng/Kg	0.0895U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0759 ng/Kg	0.0759U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.119 ng/Kg	0.119U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0599 ng/Kg	0.0599U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.130 ng/Kg	0.130U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0755 ng/Kg	0.0755U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	OCDD	2.45 ng/Kg	2.45U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	OCDF	0.163 ng/Kg	0.163U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.807 ng/Kg	0.807U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.251 ng/Kg	0.251U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0619 ng/Kg	0.0619U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.109 ng/Kg	0.109U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0558 ng/Kg	0.0558U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.122 ng/Kg	0.122U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0982 ng/Kg	0.0982U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0801 ng/Kg	0.0801U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0580 ng/Kg	0.0580U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	OCDF	0.518 ng/Kg	0.518U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.703 ng/Kg	0.703U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: DX110_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-199-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.195 ng/Kg	0.195U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0396 ng/Kg	0.0396U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0741 ng/Kg	0.0741U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.188 ng/Kg	0.188U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0407 ng/Kg	0.0407U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0889 ng/Kg	0.0889U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0839 ng/Kg	0.0839U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0485 ng/Kg	0.0485U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	OCDD	2.11 ng/Kg	2.11U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	OCDF	0.264 ng/Kg	0.264U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.857 ng/Kg	0.857U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.227 ng/Kg	0.227U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0376 ng/Kg	0.0376U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0465 ng/Kg	0.0465U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0397 ng/Kg	0.0397U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0191 ng/Kg	0.0191U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0660 ng/Kg	0.0660U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0487 ng/Kg	0.0487U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0579 ng/Kg	0.0579U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	OCDD	3.74 ng/Kg	3.74U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	OCDF	0.271 ng/Kg	0.271U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.608 ng/Kg	0.608U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.117 ng/Kg	0.117U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0798 ng/Kg	0.0798U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0664 ng/Kg	0.0664U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0785 ng/Kg	0.0785U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0364 ng/Kg	0.0364U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.134 ng/Kg	0.134U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0569 ng/Kg	0.0569U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0274 ng/Kg	0.0274U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0570 ng/Kg	0.0570U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	OCDD	2.02 ng/Kg	2.02U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	OCDF	0.224 ng/Kg	0.224U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.555 ng/Kg	0.555U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.128 ng/Kg	0.128U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0396 ng/Kg	0.0396U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0337 ng/Kg	0.0337U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0280 ng/Kg	0.0280U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0257 ng/Kg	0.0257U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0393 ng/Kg	0.0393U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: DX110_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-275-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0387 ng/Kg	0.0387U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	OCDD	2.71 ng/Kg	2.71U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	OCDF	0.152 ng/Kg	0.152U ng/Kg
SL-276-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.232 ng/Kg	0.232U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.423 ng/Kg	0.423U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0993 ng/Kg	0.0993U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0357 ng/Kg	0.0357U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0291 ng/Kg	0.0291U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0427 ng/Kg	0.0427U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0541 ng/Kg	0.0541U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	OCDD	1.24 ng/Kg	1.24U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	OCDF	0.150 ng/Kg	0.150U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	1.92 ng/Kg	1.92U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.300 ng/Kg	0.300U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0421 ng/Kg	0.0421U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.0740 ng/Kg	0.0740U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0267 ng/Kg	0.0267U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.0738 ng/Kg	0.0738U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0209 ng/Kg	0.0209U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0410 ng/Kg	0.0410U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0424 ng/Kg	0.0424U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	OCDF	0.493 ng/Kg	0.493U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: DX110_v1. **eQAPP Name: CDM_SSFL_110509**

***Method:* 1613B**
***Matrix:* SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	OCDD	-489	-572	40.00-135.00	-	OCDD	No Qual, >4x
SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	1,2,3,4,6,7,8-HPCDD	-	35	40.00-135.00	-	1,2,3,4,6,7,8-HPCDD	No Qual, >4x

Field Duplicate RPD Report

Lab Reporting Batch ID: DX110 Laboratory: LL

EDD Filename: DX110_v1. eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
MOISTURE	0.85	0.80	6		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
1,2,3,4,6,7,8-HPCDD	2850	3330	16	50.00	
1,2,3,4,6,7,8-HPCDF	354	419	17	50.00	
1,2,3,4,7,8,9-HPCDF	41.6	49.0	16	50.00	
1,2,3,4,7,8-HxCDD	12.0	14.0	15	50.00	
1,2,3,4,7,8-HXCDF	30.7	33.5	9	50.00	
1,2,3,6,7,8-HXCDD	70.9	84.3	17	50.00	
1,2,3,6,7,8-HXCDF	17.7	20.7	16	50.00	
1,2,3,7,8,9-HXCDD	27.6	31.9	14	50.00	
1,2,3,7,8,9-HXCDF	5.90	6.47	9	50.00	No Qualifiers Applied
1,2,3,7,8-PECDD	7.47	6.57	13	50.00	
1,2,3,7,8-PECDF	33.6	51.0	41	50.00	
2,3,4,6,7,8-HXCDF	31.1	37.9	20	50.00	
2,3,4,7,8-PECDF	28.7	34.2	17	50.00	
2,3,7,8-TCDD	0.939	0.936	0	50.00	
2,3,7,8-TCDF	11.8	11.5	3	50.00	
OCDD	56700	66100	15	50.00	
OCDF	736	848	14	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: DX110_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	2,3,7,8-TCDD	J	0.936	1.01	PQL	ng/Kg	J (all detects)
SL-135-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.458	5.75	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.177	5.75	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0298	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0452	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0268	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0749	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0932	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0542	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0288	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0516	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0432	5.75	PQL	ng/Kg	
	OCDD	JBQ	0.987	11.5	PQL	ng/Kg	
	OCDF	JBQ	0.229	11.5	PQL	ng/Kg	
SL-136-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.805	5.40	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.173	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0745	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0470	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0716	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0280	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.0672	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0711	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0402	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0550	5.40	PQL	ng/Kg	
	OCDD	JB	6.26	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.313	10.8	PQL	ng/Kg	
SL-136-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.681	5.40	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.165	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0408	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0367	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0359	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0419	5.40	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JBQ	0.0646	5.40	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0479	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0430	1.08	PQL	ng/Kg	
	OCDD	JB	2.50	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.187	10.8	PQL	ng/Kg	
SL-138-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.493	5.31	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.129	5.31	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0361	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0321	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0317	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0239	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.0571	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0529	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0546	5.31	PQL	ng/Kg	
	OCDD	JB	1.60	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.138	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: DX110_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-138-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.848	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.272	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0574	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.121	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.160	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.108	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0833	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0675	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.115	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.133	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.176	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.101	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.191	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.113	1.10	PQL	ng/Kg	
	OCDD	JB	4.73	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.447	11.0	PQL	ng/Kg	
SL-139-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.533	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.119	5.37	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0511	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0619	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0388	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0435	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0739	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0410	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0602	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.0746	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0550	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.102	5.37	PQL	ng/Kg	
	OCDD	JB	1.87	10.7	PQL	ng/Kg	
	OCDF	JBQ	0.236	10.7	PQL	ng/Kg	
SL-139-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.694	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.212	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0691	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.102	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0850	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0895	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0759	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.119	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.148	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0599	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.130	5.60	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0755	1.12	PQL	ng/Kg	
	OCDD	JB	2.45	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.163	11.2	PQL	ng/Kg	
SL-149-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.807	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.251	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0619	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.109	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0558	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.122	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0982	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0310	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0801	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0580	5.44	PQL	ng/Kg	
	OCDD	JB	6.19	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.518	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: DX110_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-149-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.24	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.14	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.61	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.65	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.993	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.87	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.434	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.906	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	1.01	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.04	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.27	5.02	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.267	1.00	PQL	ng/Kg	
SL-199-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.703	5.79	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.195	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0396	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0741	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.188	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0407	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.438	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.538	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0889	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.145	5.79	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0839	5.79	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0485	5.79	PQL	ng/Kg	
	OCDD	JB	2.11	11.6	PQL	ng/Kg	
	OCDF	JB	0.264	11.6	PQL	ng/Kg	
SL-199-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.857	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.227	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0376	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0465	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0397	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0191	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0660	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0345	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0487	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0579	5.57	PQL	ng/Kg	
	OCDD	JB	3.74	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.271	11.1	PQL	ng/Kg	
SL-275-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.608	5.15	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.117	5.15	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0798	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0664	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0785	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0364	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.134	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0569	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0324	5.15	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0274	5.15	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0570	5.15	PQL	ng/Kg	
	OCDD	JB	2.02	10.3	PQL	ng/Kg	
	OCDF	JBQ	0.224	10.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: DX110_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-275-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.555	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.128	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0396	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0337	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0280	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0257	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0393	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0387	5.45	PQL	ng/Kg	
	OCDD	JBQ	2.71	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.152	10.9	PQL	ng/Kg	
SL-276-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	1.21	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JBQ	0.529	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.46	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.90	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.05	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.17	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.232	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.230	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.756	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.81	5.42	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0400	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.965	1.08	PQL	ng/Kg	
SL-276-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.423	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0993	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0357	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0291	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0427	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0541	5.41	PQL	ng/Kg	
	OCDD	JB	1.24	10.8	PQL	ng/Kg	
	OCDF	JB	0.150	10.8	PQL	ng/Kg	
SL-289-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	1.92	4.94	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.300	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0421	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0740	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0267	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0738	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0209	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0282	4.94	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0410	4.94	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0424	4.94	PQL	ng/Kg	
	OCDF	JB	0.493	9.88	PQL	ng/Kg	
SL-292-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.67	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	2.52	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.55	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.86	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.02	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.04	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	3.99	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.32	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	4.57	5.01	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.643	1.00	PQL	ng/Kg	
SL-297-SA6-SS-0.0-0.5	2,3,7,8-TCDD	JQ	0.939	1.01	PQL	ng/Kg	J (all detects)

SAMPLE DELIVERY GROUP

DX111

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
11-Jul-2011	SL-291-SA6-SS-0.0-0.5	6342330	N	METHOD	1613B	III
12-Jul-2011	SL-290-SA6-SS-0.0-0.5	6342335	N	METHOD	1613B	III
12-Jul-2011	SL-098-SA6-SS-0.0-0.5	6342331	N	METHOD	1613B	III
12-Jul-2011	SL-109-SA6-SS-0.0-0.5	6342332	N	METHOD	1613B	III
12-Jul-2011	SL-110-SA6-SS-0.0-0.5	6342333	N	METHOD	1613B	III
12-Jul-2011	SL-113-SA6-SS-0.0-0.5	6342334	N	METHOD	1613B	III
12-Jul-2011	EB-SA6-SS-071211	6342336	EB	METHOD	1613B	III
12-Jul-2011	SL-281-SA6-SS-0.0-0.5	6343418	N	METHOD	1613B	III
12-Jul-2011	SL-300-SA6-SS-0.0-0.5	6343419	N	METHOD	1613B	III
12-Jul-2011	SL-280-SA6-SS-0.0-0.5	6343417	N	METHOD	1613B	III
13-Jul-2011	SL-279-SA6-SS-0.0-0.5	6343428	N	METHOD	1613B	III
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343427	N	METHOD	1613B	III
13-Jul-2011	SL-040-SA6-SS-0.0-0.5	6343422	N	METHOD	1613B	III
13-Jul-2011	SL-035-SA6-SS-0.0-0.5	6343421	N	METHOD	1613B	III
13-Jul-2011	SL-030-SA6-SS-0.0-0.5	6343420	N	METHOD	1613B	III
13-Jul-2011	SL-059-SA6-SS-0.0-0.5	6343424	N	METHOD	1613B	III
13-Jul-2011	SL-047-SA6-SS-0.0-0.5	6343423	N	METHOD	1613B	III
13-Jul-2011	SL-067-SA6-SS-0.0-0.5	6343426	N	METHOD	1613B	III
13-Jul-2011	SL-066-SA6-SS-0.0-0.5	6343425	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX111 **Laboratory: LL**

EDD Filename: DX111_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: AQ**

Sample ID: EB-SA6-SS-071211 *Collected:* 7/12/2011 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
1,2,3,4,6,7,8-HPCDD	5.28	JBQ	0.459	MDL	10.8	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.25	JB	0.117	MDL	10.8	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.405	JBQ	0.267	MDL	10.8	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.514	JBQ	0.171	MDL	10.8	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.288	JBQ	0.168	MDL	10.8	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.642	JBQ	0.275	MDL	10.8	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.256	JBQ	0.192	MDL	10.8	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.183	JBQ	0.182	MDL	10.8	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.597	JBQ	0.166	MDL	10.8	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.906	JBQ	0.155	MDL	10.8	PQL	pg/L	U	B
OCDD	10.9	JB	0.416	MDL	21.6	PQL	pg/L	U	B
OCDF	1.17	JBQ	0.426	MDL	21.6	PQL	pg/L	U	B

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-030-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	1.46	JB	0.201	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	4.32	JB	0.257	MDL	5.08	PQL	ng/Kg	J	Z
OCDD	21800	EB	0.229	MDL	10.2	PQL	ng/Kg	J	*XI

Sample ID: SL-035-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	2.69	JB	0.116	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.49	JB	0.0720	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.45	JB	0.0691	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.89	JB	0.114	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.544	JB	0.0759	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	4.05	JB	0.0772	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.65	JB	0.0836	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.98	JB	0.0715	MDL	5.04	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX111 **Laboratory:** LL

EDD Filename: DX111_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-035-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	1.52	JB	0.0806	MDL	5.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.347	JB	0.0198	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.693	J	0.0942	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	5790	EB	0.121	MDL	10.1	PQL	ng/Kg	J	*XI

Sample ID: SL-040-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 9:45:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.414	JC	0.0702	MDL	1.03	PQL	ng/Kg	J	Z

Sample ID: SL-040-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 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
1,2,3,4,7,8,9-HPCDF	1.03	JB	0.149	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.607	JB	0.0617	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.73	JB	0.0571	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.02	JB	0.0647	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.800	JB	0.0555	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.06	JB	0.0620	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.279	JB	0.0620	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.300	JB	0.0398	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	4.92	JB	0.0679	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.714	JB	0.0559	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.07	JB	0.0656	MDL	5.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0752	JB	0.0149	MDL	1.03	PQL	ng/Kg	U	B

Sample ID: SL-047-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 1:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.96	JB	0.0228	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.247	JB	0.0320	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.270	JBQ	0.0514	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.422	JB	0.0357	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.09	JB	0.0521	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.285	JB	0.0320	MDL	4.98	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX111 **Laboratory: LL**

EDD Filename: DX111_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-047-SA6-SS-0.0-0.5 **Collected: 7/13/2011 1:53:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	1.08	JB	0.0541	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.112	JB	0.0384	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.185	JB	0.0335	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.420	JBQ	0.0334	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.256	JB	0.0331	MDL	4.98	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.438	JB	0.0294	MDL	4.98	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0518	JQ	0.0355	MDL	0.995	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.307	JBQ	0.0674	MDL	0.995	PQL	ng/Kg	J	Z
OCDF	8.79	JB	0.0358	MDL	9.95	PQL	ng/Kg	J	Z

Sample ID: SL-059-SA6-SS-0.0-0.5 **Collected: 7/13/2011 1:23:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.683	JBQ	0.102	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.476	JB	0.0544	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.41	JB	0.0494	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.50	JB	0.0575	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.398	JB	0.0449	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.799	JBQ	0.0558	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0806	JBQ	0.0562	MDL	4.89	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.165	JBQ	0.0260	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.52	JB	0.0405	MDL	4.89	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.368	JB	0.0456	MDL	4.89	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.420	JB	0.0406	MDL	4.89	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0749	JBQ	0.0145	MDL	0.978	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.249	JQ	0.0509	MDL	0.978	PQL	ng/Kg	J	Z

Sample ID: SL-066-SA6-SS-0.0-0.5 **Collected: 7/13/2011 2:43:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	1.77	JB	0.0911	MDL	4.87	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.82	JB	0.0725	MDL	4.87	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.10	JB	0.0613	MDL	4.87	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.33	JB	0.0894	MDL	4.87	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.530	JB	0.0830	MDL	4.87	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX111 **Laboratory:** LL

EDD Filename: DX111_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-066-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 2:43:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.996	JB	0.0428	MDL	4.87	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.566	JBQ	0.0333	MDL	4.87	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.255	JBQ	0.0352	MDL	4.87	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.110	JBQ	0.0155	MDL	0.974	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0673	JQ	0.0332	MDL	0.974	PQL	ng/Kg	U	B
OCDD	7900	EB	0.177	MDL	9.74	PQL	ng/Kg	J	*XI

Sample ID: SL-067-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 2:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.53	JB	0.0896	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.40	JB	0.0724	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.21	JB	0.0601	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.28	JB	0.0535	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.91	JB	0.0677	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.305	JB	0.0636	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.596	JBQ	0.0401	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.665	JB	0.0406	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.72	JB	0.0524	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.543	JB	0.0412	MDL	4.94	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0984	JBQ	0.0161	MDL	0.988	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.224	J	0.0510	MDL	0.988	PQL	ng/Kg	J	Z

Sample ID: SL-098-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 8:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.44	JB	0.0535	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.320	JBQ	0.0658	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.177	JB	0.0503	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.491	JB	0.0380	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.490	JB	0.0513	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.247	JBQ	0.0368	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.341	JB	0.0477	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0892	JB	0.0388	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.124	JBQ	0.0213	MDL	5.05	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX111 **Laboratory:** LL

EDD Filename: DX111_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-098-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 8:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.923	JB	0.0412	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.256	JB	0.0356	MDL	5.05	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0208	JBQ	0.0128	MDL	1.01	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.292	J	0.0688	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	4.58	JB	0.109	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: SL-109-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 9:43:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.72	JB	0.126	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.585	JB	0.0774	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.58	JB	0.0855	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.87	JB	0.0807	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.951	JB	0.0852	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.11	JB	0.0769	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.216	JBQ	0.0893	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.548	JB	0.0343	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.22	JB	0.0782	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.49	JB	0.0863	MDL	5.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0776	JB	0.0196	MDL	1.02	PQL	ng/Kg	U	B

Sample ID: SL-110-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 10:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	3.66	JB	0.0948	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	4.05	JB	0.0874	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.865	JB	0.0942	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.85	JB	0.0607	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.68	JB	0.0743	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	4.64	JB	0.0795	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.14	JB	0.0710	MDL	5.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.249	JB	0.0165	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.619	J	0.0977	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	15000	EB	0.309	MDL	10.1	PQL	ng/Kg	J	*XI

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX111 **Laboratory:** LL

EDD Filename: DX111_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-113-SA6-SS-0.0-0.5 ***Collected:*** 7/12/2011 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
1,2,3,4,7,8-HxCDD	3.53	JB	0.177	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	4.13	JB	0.106	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.12	JB	0.136	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.24	JB	0.0716	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.350	JBQ	0.0675	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.05	JB	0.0614	MDL	5.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.170	JB	0.0221	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.516	J	0.0930	MDL	1.03	PQL	ng/Kg	J	Z
OCDD	18800	EB	0.407	MDL	10.3	PQL	ng/Kg	J	*XI

Sample ID: SL-278-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 9:10:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	10900	EB	1.13	MDL	5.03	PQL	ng/Kg	J	*XI
1,2,3,7,8-PECDD	4.59	JB	0.297	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	4.94	JB	0.142	MDL	5.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.616	JB	0.0838	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	135000	EB	0.784	MDL	10.1	PQL	ng/Kg	J	*XI

Sample ID: SL-279-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 7:38:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.01	JBQ	0.138	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.642	JB	0.0720	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.02	JB	0.0634	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.05	JB	0.0742	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.520	JB	0.0579	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.920	JB	0.0693	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.208	JBQ	0.0764	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.305	JBQ	0.0369	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.88	JB	0.0616	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.569	JB	0.0630	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.561	JB	0.0630	MDL	5.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0541	JBQ	0.0166	MDL	1.01	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.582	J	0.140	MDL	1.01	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX111 **Laboratory: LL**

EDD Filename: DX111_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-280-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:43:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.674	JC	0.0802	MDL	1.02	PQL	ng/Kg	J	Z

Sample ID: SL-280-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:43:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.58	JB	0.112	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.69	JB	0.0927	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.33	JB	0.0870	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.422	JB	0.106	MDL	5.11	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.81	JB	0.0850	MDL	5.11	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.45	JBQ	0.0834	MDL	5.11	PQL	ng/Kg	J	Z
OCDD	7290	EB	0.193	MDL	10.2	PQL	ng/Kg	J	*XI

Sample ID: SL-281-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 2:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.40	JB	0.128	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.28	JB	0.107	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.20	JB	0.101	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.35	JBQ	0.101	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.28	JB	0.103	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.487	JB	0.109	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	3.08	JB	0.0982	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.61	JB	0.0940	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.33	JB	0.135	MDL	5.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.233	JBQ	0.0220	MDL	1.02	PQL	ng/Kg	J	Z

Sample ID: SL-290-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 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
1,2,3,4,6,7,8-HPCDF	2.32	JB	0.0619	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.315	JBQ	0.0907	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.160	JBQ	0.0541	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.803	JBQ	0.0513	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.498	JB	0.0569	MDL	5.00	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX111 **Laboratory: LL**

EDD Filename: DX111_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-290-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 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
1,2,3,6,7,8-HXCDF	0.246	JB	0.0474	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.405	JB	0.0551	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.126	JBQ	0.0588	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.130	JB	0.0343	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.59	JB	0.0524	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.222	JB	0.0491	MDL	5.00	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.410	JB	0.0476	MDL	5.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0281	JBQ	0.0161	MDL	1.00	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.296	J	0.0764	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	4.26	JB	0.121	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-291-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 3:29:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.14	JB	0.0789	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.61	JB	0.0898	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.36	JB	0.0843	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.943	JB	0.0781	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.69	JB	0.102	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	3.85	JB	0.139	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.80	JB	0.0724	MDL	4.94	PQL	ng/Kg	J	Z

Sample ID: SL-300-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:05:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.976	JC	0.0809	MDL	0.989	PQL	ng/Kg	J	Z

Sample ID: SL-300-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.18	JB	0.0309	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.545	JB	0.0418	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.51	JB	0.0514	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.24	JB	0.0544	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.02	JB	0.0529	MDL	4.95	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX111 **Laboratory: LL**

EDD Filename: DX111_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: **GENCHEM**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-300-SA6-SS-0.0-0.5** ***Collected:*** **7/12/2011 3:05:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,3,6,7,8-HXCDF	0.729	JB	0.0502	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.697	JB	0.0489	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.262	JB	0.0574	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.430	JB	0.0481	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.609	JB	0.0488	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.67	JB	0.0771	MDL	4.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.143	JB	0.0197	MDL	0.989	PQL	ng/Kg	J	Z
OCDF	8.18	JB	0.0300	MDL	9.89	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX111 **Laboratory: LL**

EDD Filename: DX111_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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
*XI	Compound Quantitation and CRQL
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

Data Qualifier Summary

Lab Reporting Batch ID: DX111 **Laboratory: LL**

EDD Filename: DX111_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: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX111 **Laboratory: LL**

EDD Filename: DX111_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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX111

Method Blank Outlier Report

Lab Reporting Batch ID: DX111 **Laboratory: LL**

EDD Filename: DX111_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1990B371537	7/21/2011 3:37:00 PM	1,2,3,4,6,7,8-HPCDD	4.77 pg/L	EB-SA6-SS-071211
		1,2,3,4,6,7,8-HPCDF	1.11 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.617 pg/L	
		1,2,3,4,7,8-HxCDD	0.272 pg/L	
		1,2,3,4,7,8-HXCDF	0.447 pg/L	
		1,2,3,6,7,8-HXCDD	0.625 pg/L	
		1,2,3,6,7,8-HXCDF	0.360 pg/L	
		1,2,3,7,8,9-HXCDD	0.898 pg/L	
		1,2,3,7,8,9-HXCDF	0.596 pg/L	
		1,2,3,7,8-PECDD	0.295 pg/L	
		1,2,3,7,8-PECDF	0.321 pg/L	
		2,3,4,6,7,8-HXCDF	0.382 pg/L	
		2,3,4,7,8-PECDF	0.804 pg/L	
		OCDD	9.97 pg/L	
		OCDF	1.09 pg/L	

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-SS-071211(RES)	1,2,3,4,6,7,8-HPCDD	5.28 pg/L	5.28U pg/L
EB-SA6-SS-071211(RES)	1,2,3,4,6,7,8-HPCDF	1.25 pg/L	1.25U pg/L
EB-SA6-SS-071211(RES)	1,2,3,4,7,8-HxCDD	0.405 pg/L	0.405U pg/L
EB-SA6-SS-071211(RES)	1,2,3,4,7,8-HXCDF	0.514 pg/L	0.514U pg/L
EB-SA6-SS-071211(RES)	1,2,3,6,7,8-HXCDF	0.288 pg/L	0.288U pg/L
EB-SA6-SS-071211(RES)	1,2,3,7,8,9-HXCDD	0.642 pg/L	0.642U pg/L
EB-SA6-SS-071211(RES)	1,2,3,7,8,9-HXCDF	0.256 pg/L	0.256U pg/L
EB-SA6-SS-071211(RES)	1,2,3,7,8-PECDF	0.183 pg/L	0.183U pg/L
EB-SA6-SS-071211(RES)	2,3,4,6,7,8-HXCDF	0.597 pg/L	0.597U pg/L
EB-SA6-SS-071211(RES)	2,3,4,7,8-PECDF	0.906 pg/L	0.906U pg/L
EB-SA6-SS-071211(RES)	OCDD	10.9 pg/L	10.9U pg/L
EB-SA6-SS-071211(RES)	OCDF	1.17 pg/L	1.17U pg/L

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2060B371052	7/28/2011 10:52:00 AM	2,3,7,8-TCDF	0.0263 ng/Kg	SL-030-SA6-SS-0.0-0.5
				SL-035-SA6-SS-0.0-0.5
				SL-040-SA6-SS-0.0-0.5
				SL-059-SA6-SS-0.0-0.5
				SL-066-SA6-SS-0.0-0.5
				SL-067-SA6-SS-0.0-0.5
				SL-098-SA6-SS-0.0-0.5
				SL-109-SA6-SS-0.0-0.5
				SL-110-SA6-SS-0.0-0.5
				SL-113-SA6-SS-0.0-0.5
				SL-278-SA6-SS-0.0-0.5
				SL-279-SA6-SS-0.0-0.5
				SL-280-SA6-SS-0.0-0.5
				SL-281-SA6-SS-0.0-0.5
				SL-290-SA6-SS-0.0-0.5
				SL-291-SA6-SS-0.0-0.5
				SL-300-SA6-SS-0.0-0.5

Method Blank Outlier Report

Lab Reporting Batch ID: DX111 **Laboratory: LL**

EDD Filename: DX111_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2060B371804	7/26/2011 6:04:00 PM	1,2,3,4,6,7,8-HPCDD	0.481 ng/Kg	SL-030-SA6-SS-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.220 ng/Kg	SL-035-SA6-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0514 ng/Kg	SL-040-SA6-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0136 ng/Kg	SL-059-SA6-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0540 ng/Kg	SL-066-SA6-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0239 ng/Kg	SL-067-SA6-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0336 ng/Kg	SL-098-SA6-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0359 ng/Kg	SL-109-SA6-SS-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.0460 ng/Kg	SL-110-SA6-SS-0.0-0.5
		1,2,3,7,8-PECDD	0.0147 ng/Kg	SL-113-SA6-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0222 ng/Kg	SL-278-SA6-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0540 ng/Kg	SL-279-SA6-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0584 ng/Kg	SL-280-SA6-SS-0.0-0.5
		2,3,7,8-TCDD	0.0186 ng/Kg	SL-281-SA6-SS-0.0-0.5
		OCDD	1.94 ng/Kg	SL-290-SA6-SS-0.0-0.5
		OCDF	0.225 ng/Kg	SL-291-SA6-SS-0.0-0.5
				SL-300-SA6-SS-0.0-0.5
BLK2100B371502	8/1/2011 3:02:00 PM	1,2,3,4,6,7,8-HPCDD	1.10 ng/Kg	SL-047-SA6-SS-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.0960 ng/Kg	
		1,2,3,4,7,8,9-HPCDF	0.0192 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0831 ng/Kg	
		1,2,3,4,7,8-HXCDF	0.0448 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0751 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0341 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0786 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0484 ng/Kg	
		1,2,3,7,8-PECDD	0.0724 ng/Kg	
		1,2,3,7,8-PECDF	0.0473 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0534 ng/Kg	
		2,3,4,7,8-PECDF	0.0459 ng/Kg	
		2,3,7,8-TCDF	0.0475 ng/Kg	
		OCDD	6.35 ng/Kg	
		OCDF	0.174 ng/Kg	

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-040-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0752 ng/Kg	0.0752U ng/Kg
SL-047-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.270 ng/Kg	0.270U ng/Kg
SL-047-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.112 ng/Kg	0.112U ng/Kg
SL-047-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.185 ng/Kg	0.185U ng/Kg
SL-047-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.256 ng/Kg	0.256U ng/Kg
SL-059-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0808 ng/Kg	0.0808U ng/Kg
SL-059-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0749 ng/Kg	0.0749U ng/Kg
SL-066-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.255 ng/Kg	0.255U ng/Kg
SL-066-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0673 ng/Kg	0.0673U ng/Kg
SL-098-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0892 ng/Kg	0.0892U ng/Kg
SL-098-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.256 ng/Kg	0.256U ng/Kg
SL-098-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0208 ng/Kg	0.0208U ng/Kg
SL-109-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.216 ng/Kg	0.216U ng/Kg
SL-109-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0776 ng/Kg	0.0776U ng/Kg
SL-279-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.208 ng/Kg	0.208U ng/Kg
SL-279-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0541 ng/Kg	0.0541U ng/Kg
SL-290-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-290-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.222 ng/Kg	0.222U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX111 **Laboratory: LL**

EDD Filename: DX111_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-290-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0281 ng/Kg	0.0281U ng/Kg

Reporting Limit Outliers

Lab Reporting Batch ID: DX111 **Laboratory: LL**

EDD Filename: DX111_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SS-071211	1,2,3,4,6,7,8-HPCDD	JBQ	5.28	10.8	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.25	10.8	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.405	10.8	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.514	10.8	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.288	10.8	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.642	10.8	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.256	10.8	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.183	10.8	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.597	10.8	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.906	10.8	PQL	pg/L	
	OCDD	JB	10.9	21.6	PQL	pg/L	
	OCDF	JBQ	1.17	21.6	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-030-SA6-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	1.46	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	4.32	5.08	PQL	ng/Kg	
SL-035-SA6-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	JB	2.69	5.04	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HXCDF	JB	3.49	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.45	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.89	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.544	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	4.05	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.65	5.04	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.98	5.04	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.52	5.04	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.347	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.693	1.01	PQL	ng/Kg	
SL-040-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.03	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.607	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.73	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.02	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.800	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.06	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.279	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.300	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	4.92	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.714	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.07	5.17	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0752	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.414	1.03	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX111 **Laboratory: LL**

EDD Filename: DX111_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-047-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.96	4.98	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.247	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.270	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.422	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.09	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.285	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.08	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.112	4.98	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.185	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.420	4.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.256	4.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.438	4.98	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0518	0.995	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.307	0.995	PQL	ng/Kg	
	OCDF	JB	8.79	9.95	PQL	ng/Kg	
SL-059-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.683	4.89	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.476	4.89	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.41	4.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.50	4.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.398	4.89	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.799	4.89	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0806	4.89	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.165	4.89	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.52	4.89	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.368	4.89	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.420	4.89	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0749	0.978	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.249	0.978	PQL	ng/Kg	
SL-066-SA6-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	JB	1.77	4.87	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.82	4.87	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.10	4.87	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.33	4.87	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.530	4.87	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.996	4.87	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.566	4.87	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.255	4.87	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.110	0.974	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0673	0.974	PQL	ng/Kg	
SL-067-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	3.53	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.40	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.21	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.28	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.91	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.305	4.94	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.596	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.665	4.94	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.72	4.94	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.543	4.94	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0984	0.988	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.224	0.988	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX111 **Laboratory: LL**

EDD Filename: DX111_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-098-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.44	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.320	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.177	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.491	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.490	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.247	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.341	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0892	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.124	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.923	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.256	5.05	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0208	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.292	1.01	PQL	ng/Kg	
	OCDF	JB	4.58	10.1	PQL	ng/Kg	
SL-109-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.72	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.585	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.58	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.87	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.951	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.11	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.216	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.548	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.22	5.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.49	5.08	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0776	1.02	PQL	ng/Kg	
SL-110-SA6-SS-0.0-0.5	1,2,3,4,7,8-HXCDF	JB	3.66	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,6,7,8-HXCDF	JB	4.05	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.865	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.85	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.68	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	4.64	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.14	5.05	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.249	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.619	1.01	PQL	ng/Kg	
SL-113-SA6-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	JB	3.53	5.15	PQL	ng/Kg	J (all detects)
	1,2,3,6,7,8-HXCDF	JB	4.13	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.12	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.24	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.350	5.15	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.05	5.15	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.170	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.516	1.03	PQL	ng/Kg	
SL-278-SA6-SS-0.0-0.5	1,2,3,7,8-PECDD	JB	4.59	5.03	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JB	4.94	5.03	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.616	1.01	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX111 **Laboratory: LL**

EDD Filename: DX111_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-279-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	1.01	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.642	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.02	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.05	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.520	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.920	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.208	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.305	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.88	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.569	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.561	5.03	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0541	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.582	1.01	PQL	ng/Kg	
SL-280-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	3.58	5.11	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.69	5.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.33	5.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.422	5.11	PQL	ng/Kg	J (all detects)
	2,3,4,6,7,8-HXCDF	JB	1.81	5.11	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	1.45	5.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.674	1.02	PQL	ng/Kg	
SL-281-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.40	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	3.28	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.20	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	1.35	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.28	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.487	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	3.08	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.61	5.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	3.33	5.08	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.233	1.02	PQL	ng/Kg	
SL-290-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.32	5.00	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.315	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.160	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.803	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.498	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.246	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.405	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.126	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.130	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.59	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.222	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.410	5.00	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0281	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.296	1.00	PQL	ng/Kg	
	OCDF	JB	4.26	10.0	PQL	ng/Kg	
SL-291-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	3.14	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.61	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.36	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.943	4.94	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.69	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	3.85	4.94	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.80	4.94	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX111 **Laboratory: LL**

EDD Filename: DX111_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-300-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.18	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.545	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	3.51	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.24	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.02	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.729	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.697	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.262	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.430	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.609	4.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.67	4.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.143	0.989	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.976	0.989	PQL	ng/Kg	
	OCDF	JB	8.18	9.89	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX112

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
13-Jul-2011	SL-072-SA6-SB-4.0-5.0	6343429	N	METHOD	1613B	III
13-Jul-2011	SL-072-SA6-SB-9.0-10.0	6343430	N	METHOD	1613B	III
13-Jul-2011	SL-116-SA6-SB-2.5-3.5	6343431	N	METHOD	1613B	III
13-Jul-2011	SL-046-SA6-SS-0.0-0.5	6344256	N	METHOD	1613B	III
13-Jul-2011	EB-SA6-SB-071311	6343436	EB	METHOD	1613B	III
13-Jul-2011	SL-118-SA6-SB-10.5-11.5	6343433	N	METHOD	1613B	III
13-Jul-2011	SL-118-SA6-SB-4.0-5.0	6343432	N	METHOD	1613B	III
13-Jul-2011	SL-083-SA6-SB-4.0-5.0	6343434	N	METHOD	1613B	III
13-Jul-2011	SL-083-SA6-SB-9.0-10.0	6343435	N	METHOD	1613B	III
14-Jul-2011	SL-051-SA6-SS-0.0-0.5	6345461	N	METHOD	1613B	III
14-Jul-2011	SL-050-SA6-SS-0.0-0.5	6345460	N	METHOD	1613B	III
14-Jul-2011	SL-055-SA6-SS-0.0-0.5	6345465	N	METHOD	1613B	III
14-Jul-2011	SL-054-SA6-SS-0.0-0.5	6345464	N	METHOD	1613B	III
14-Jul-2011	SL-053-SA6-SS-0.0-0.5	6345463	N	METHOD	1613B	III
14-Jul-2011	SL-052-SA6-SS-0.0-0.5	6345462	N	METHOD	1613B	III
14-Jul-2011	SL-060-SA6-SS-0.0-0.5	6345466	N	METHOD	1613B	III
14-Jul-2011	SL-063-SA6-SS-0.0-0.5	6345467	N	METHOD	1613B	III
14-Jul-2011	SL-064-SA6-SS-0.0-0.5	6345468	N	METHOD	1613B	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5	6345457	N	METHOD	1613B	III
14-Jul-2011	SL-049-SA6-SS-0.0-0.5	6345459	N	METHOD	1613B	III
14-Jul-2011	SL-048-SA6-SS-0.0-0.5	6345458	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX112 **Laboratory: LL**

EDD Filename: DX112_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: AQ**

Sample ID: EB-SA6-SB-071311 *Collected:* 7/13/2011 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.30	JB	0.354	MDL	9.90	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.693	JB	0.0993	MDL	9.90	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.237	JBQ	0.126	MDL	9.90	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.270	JBQ	0.216	MDL	9.90	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.309	JBQ	0.115	MDL	9.90	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.367	JBQ	0.217	MDL	9.90	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.158	JBQ	0.115	MDL	9.90	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.520	JBQ	0.204	MDL	9.90	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.331	JBQ	0.131	MDL	9.90	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.436	JBQ	0.119	MDL	9.90	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.468	JBQ	0.110	MDL	9.90	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.599	JBQ	0.103	MDL	9.90	PQL	pg/L	U	B
OCDD	10.3	JB	0.336	MDL	19.8	PQL	pg/L	U	B

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-037-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 1:54:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.64	JB	0.0273	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.564	JB	0.0139	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.109	JBQ	0.0226	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.130	J	0.0296	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.248	JB	0.0240	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.247	JB	0.0299	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.143	JB	0.0206	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.241	JB	0.0297	MDL	4.95	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.134	J	0.0236	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.138	JQ	0.0228	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.225	JBQ	0.0193	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.176	JB	0.0218	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.335	JB	0.0181	MDL	4.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0774	JQ	0.0220	MDL	0.990	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX112 Laboratory: LL

EDD Filename: DX112_v1. eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-037-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 1:54:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.158	JQ	0.0341	MDL	0.990	PQL	ng/Kg	J	Z
OCDF	1.06	JB	0.0286	MDL	9.90	PQL	ng/Kg	J	Z

Sample ID: SL-046-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 10:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.832	JB	0.0848	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.677	J	0.0923	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.25	JB	0.0737	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.09	JB	0.0960	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.448	JBQ	0.0657	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.28	JB	0.0973	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.186	J	0.0851	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.278	JQ	0.0521	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.833	JB	0.0540	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.561	JB	0.0732	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.757	JB	0.0539	MDL	4.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0661	J	0.0368	MDL	0.990	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.457	J	0.0817	MDL	0.990	PQL	ng/Kg	J	Z

Sample ID: SL-048-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 3:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.02	JB	0.0175	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.222	JB	0.0298	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.179	J	0.0459	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.625	JB	0.0376	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.613	JB	0.0448	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.197	JBQ	0.0330	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.441	JB	0.0431	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.111	J	0.0380	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.122	J	0.0278	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.700	JBQ	0.0337	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.200	JB	0.0345	MDL	4.98	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0402	JQ	0.0277	MDL	0.996	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX112 **Laboratory:** LL

EDD Filename: DX112_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-048-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 3:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.224	JQ	0.0656	MDL	0.996	PQL	ng/Kg	J	Z

Sample ID: SL-049-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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
1,2,3,4,6,7,8-HPCDF	1.17	JB	0.0167	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.306	JB	0.0242	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.367	J	0.0374	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.280	JB	0.0289	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.564	JB	0.0368	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.298	JB	0.0269	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.726	JB	0.0368	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.334	J	0.0312	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.331	JQ	0.0271	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.268	JBQ	0.0179	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.321	JB	0.0276	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.326	JB	0.0170	MDL	5.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0442	JQ	0.0272	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0848	JQ	0.0317	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	2.91	JB	0.0274	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-050-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.911	JB	0.0595	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.546	JB	0.0378	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.480	JB	0.0353	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.96	JB	0.0758	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.154	J	0.0409	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.12	JQ	0.0632	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.404	JB	0.0329	MDL	5.06	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.577	JBQ	0.0368	MDL	5.06	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.406	JB	0.0313	MDL	5.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.301	J	0.0436	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.178	J	0.0664	MDL	1.01	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX112 **Laboratory: LL**

EDD Filename: DX112_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-051-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:07:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.20	JB	0.0218	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.347	JB	0.0352	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.359	J	0.0469	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.534	JB	0.0314	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.46	JB	0.0482	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.352	JBQ	0.0278	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.22	JB	0.0457	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.118	JQ	0.0346	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.312	J	0.0403	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.190	JB	0.0340	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.272	JBQ	0.0294	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.712	JB	0.0336	MDL	5.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0457	JQ	0.0286	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.330	JQ	0.0716	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	7.68	JB	0.0284	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: SL-052-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 10:17:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.82	JB	0.0501	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.578	J	0.0532	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.64	JB	0.0570	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.59	JB	0.0536	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.93	JB	0.0511	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.430	J	0.0738	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.309	J	0.0515	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.40	JB	0.0561	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.07	JBQ	0.0856	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0332	JQ	0.0273	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-053-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 9:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.89	JB	0.0251	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.392	JB	0.0419	MDL	4.97	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX112 **Laboratory:** LL

EDD Filename: DX112_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-053-SA6-SS-0.0-0.5 **Collected:** 7/14/2011 9:52:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.291	J	0.0485	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.327	JBQ	0.0343	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.22	JB	0.0484	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.244	JBQ	0.0298	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.944	JB	0.0482	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.109	JQ	0.0356	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.266	JQ	0.0339	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.221	JB	0.0246	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.267	JBQ	0.0314	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.359	JBQ	0.0249	MDL	4.97	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0396	JQ	0.0334	MDL	0.994	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.138	JQ	0.0507	MDL	0.994	PQL	ng/Kg	J	Z
OCDF	9.23	JB	0.0344	MDL	9.94	PQL	ng/Kg	J	Z

Sample ID: SL-054-SA6-SS-0.0-0.5 **Collected:** 7/14/2011 9:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.580	JB	0.0603	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.407	JQ	0.0610	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.567	JBQ	0.0542	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.74	JB	0.0627	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.357	JB	0.0477	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.02	JB	0.0636	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.109	JQ	0.0643	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.277	J	0.0434	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.521	JB	0.0434	MDL	5.06	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.442	JB	0.0517	MDL	5.06	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.529	JBQ	0.0431	MDL	5.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0688	JQ	0.0402	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.306	J	0.0883	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-055-SA6-SS-0.0-0.5 **Collected:** 7/14/2011 8:53:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.98	JB	0.0208	MDL	5.03	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX112 **Laboratory:** LL

EDD Filename: DX112_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-055-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.364	JB	0.0390	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.278	J	0.0493	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.399	JB	0.0349	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.15	JB	0.0489	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.328	JB	0.0304	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.913	JB	0.0463	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.151	JQ	0.0401	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.194	J	0.0322	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.369	JB	0.0343	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.298	JB	0.0335	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.596	JB	0.0344	MDL	5.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0545	JQ	0.0337	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.287	JQ	0.0827	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	6.88	JB	0.0395	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: SL-060-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 10:38:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.77	JB	0.0546	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.961	J	0.0567	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.42	JB	0.0444	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.40	JB	0.0576	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.972	JB	0.0408	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.96	JB	0.0577	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.232	J	0.0466	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.541	JQ	0.0484	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.698	JB	0.0498	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.25	JB	0.0424	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.947	JB	0.0476	MDL	5.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0809	JQ	0.0320	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.696	J	0.114	MDL	1.01	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX112 **Laboratory:** LL

EDD Filename: DX112_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-063-SA6-SS-0.0-0.5 **Collected:** 7/14/2011 11:16:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3620	EB	0.407	MDL	5.14	PQL	ng/Kg	J	*XI
1,2,3,7,8,9-HXCDF	3.28	J	0.215	MDL	5.14	PQL	ng/Kg	J	Z
OCDD	48000	EB	0.447	MDL	10.3	PQL	ng/Kg	J	*XI

Sample ID: SL-064-SA6-SS-0.0-0.5 **Collected:** 7/14/2011 1:29:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	4.83	JB	0.103	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.99	J	0.0752	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.41	JB	0.0591	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.87	JB	0.0540	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.415	J	0.0666	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.35	J	0.0738	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.891	JB	0.0415	MDL	5.11	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.14	JB	0.0556	MDL	5.11	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.818	JB	0.0429	MDL	5.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.268	J	0.0336	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.413	J	0.0805	MDL	1.02	PQL	ng/Kg	J	Z

Sample ID: SL-072-SA6-SB-4.0-5.0 **Collected:** 7/13/2011 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
1,2,3,4,6,7,8-HPCDD	4.27	JB	0.0662	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	2.22	JB	0.0266	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.142	JBQ	0.0386	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0446	JB	0.0329	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.194	JBQ	0.0315	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0351	JBQ	0.0301	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.103	JBQ	0.0314	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0549	JB	0.0304	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0759	JBQ	0.0214	MDL	5.56	PQL	ng/Kg	U	B
OCDF	9.54	JB	0.0399	MDL	11.1	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX112 **Laboratory:** LL

EDD Filename: DX112_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-072-SA6-SB-9.0-10.0 ***Collected:*** 7/13/2011 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
1,2,3,4,6,7,8-HPCDD	0.473	JB	0.0359	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0757	JBQ	0.0124	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0166	JBQ	0.0161	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0455	JB	0.0254	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0463	JQ	0.0421	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0320	JBQ	0.0255	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0228	JBQ	0.0162	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0450	JBQ	0.0231	MDL	5.69	PQL	ng/Kg	U	B
OCDD	1.39	JB	0.0362	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.106	JB	0.0450	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-083-SA6-SB-4.0-5.0 ***Collected:*** 7/13/2011 3:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.50	JB	0.0988	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.64	J	0.100	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.29	JB	0.0905	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.770	JB	0.0847	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.17	JB	0.0965	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.258	JQ	0.0686	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.05	J	0.0697	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.328	JB	0.0352	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.39	JB	0.0600	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.614	JB	0.0308	MDL	5.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.260	J	0.0288	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.468	J	0.0522	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	5000	EB	0.226	MDL	10.2	PQL	ng/Kg	J	*XI

Sample ID: SL-083-SA6-SB-9.0-10.0 ***Collected:*** 7/13/2011 3:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	4.28	J	0.158	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.13	JB	0.0911	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.66	JB	0.0907	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.530	J	0.0917	MDL	5.45	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX112 **Laboratory:** LL

EDD Filename: DX112_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-083-SA6-SB-9.0-10.0 *Collected:* 7/13/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	1.32	JB	0.0611	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.10	JB	0.0867	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.20	JB	0.0544	MDL	5.45	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.683	J	0.0367	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.846	J	0.111	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	13000	EB	0.288	MDL	10.9	PQL	ng/Kg	J	*XI

Sample ID: SL-116-SA6-SB-2.5-3.5 *Collected:* 7/13/2011 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
1,2,3,4,6,7,8-HPCDD	0.403	JB	0.0289	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0489	JB	0.0102	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0298	JQ	0.0204	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0213	JBQ	0.0201	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0202	JBQ	0.0131	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0551	JBQ	0.0198	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0439	JQ	0.0360	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0636	JBQ	0.0177	MDL	5.33	PQL	ng/Kg	U	B
OCDD	0.949	JB	0.0272	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.141	JBQ	0.0348	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-118-SA6-SB-10.5-11.5 *Collected:* 7/13/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.871	JB	0.0356	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.222	JBQ	0.0172	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0497	JB	0.0201	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0336	JB	0.0223	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0350	JBQ	0.0205	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0423	JBQ	0.0235	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.133	JBQ	0.0213	MDL	5.17	PQL	ng/Kg	U	B
OCDD	3.27	JB	0.0281	MDL	10.3	PQL	ng/Kg	U	B
OCDF	0.321	JBQ	0.0362	MDL	10.3	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX112 **Laboratory: LL**

EDD Filename: DX112_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: **GENCHEM**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-118-SA6-SB-4.0-5.0** ***Collected:*** **7/13/2011 1:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,3,4,6,7,8-HPCDF	0.999	JB	0.0373	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.140	JB	0.0550	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0762	JBQ	0.0344	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.277	JB	0.0450	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0667	JBQ	0.0317	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.139	JBQ	0.0425	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.266	JBQ	0.0343	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0400	JBQ	0.0331	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.205	JB	0.0314	MDL	5.57	PQL	ng/Kg	J	Z
OCDF	2.93	JB	0.0447	MDL	11.1	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX112 **Laboratory: LL**

EDD Filename: DX112_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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
*XI	Compound Quantitation and CRQL
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

Data Qualifier Summary

Lab Reporting Batch ID: DX112 **Laboratory: LL**

EDD Filename: DX112_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

Data Qualifier Summary

Lab Reporting Batch ID: DX112 **Laboratory: LL**

EDD Filename: DX112_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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX112

Method Blank Outlier Report

Lab Reporting Batch ID: DX112 **Laboratory: LL**

EDD Filename: DX112_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1990B371537	7/21/2011 3:37:00 PM	1,2,3,4,6,7,8-HPCDD	4.77 pg/L	EB-SA6-SB-071311
		1,2,3,4,6,7,8-HPCDF	1.11 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.617 pg/L	
		1,2,3,4,7,8-HxCDD	0.272 pg/L	
		1,2,3,4,7,8-HXCDF	0.447 pg/L	
		1,2,3,6,7,8-HXCDD	0.625 pg/L	
		1,2,3,6,7,8-HXCDF	0.360 pg/L	
		1,2,3,7,8,9-HXCDD	0.898 pg/L	
		1,2,3,7,8,9-HXCDF	0.596 pg/L	
		1,2,3,7,8-PECDD	0.295 pg/L	
		1,2,3,7,8-PECDF	0.321 pg/L	
		2,3,4,6,7,8-HXCDF	0.382 pg/L	
		2,3,4,7,8-PECDF	0.804 pg/L	
		OCDD	9.97 pg/L	
		OCDF	1.09 pg/L	

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-071311(RES)	1,2,3,4,6,7,8-HPCDD	5.30 pg/L	5.30U pg/L
EB-SA6-SB-071311(RES)	1,2,3,4,6,7,8-HPCDF	0.693 pg/L	0.693U pg/L
EB-SA6-SB-071311(RES)	1,2,3,4,7,8,9-HPCDF	0.237 pg/L	0.237U pg/L
EB-SA6-SB-071311(RES)	1,2,3,4,7,8-HxCDD	0.270 pg/L	0.270U pg/L
EB-SA6-SB-071311(RES)	1,2,3,4,7,8-HXCDF	0.309 pg/L	0.309U pg/L
EB-SA6-SB-071311(RES)	1,2,3,6,7,8-HXCDD	0.367 pg/L	0.367U pg/L
EB-SA6-SB-071311(RES)	1,2,3,6,7,8-HXCDF	0.158 pg/L	0.158U pg/L
EB-SA6-SB-071311(RES)	1,2,3,7,8,9-HXCDD	0.520 pg/L	0.520U pg/L
EB-SA6-SB-071311(RES)	1,2,3,7,8,9-HXCDF	0.331 pg/L	0.331U pg/L
EB-SA6-SB-071311(RES)	1,2,3,7,8-PECDF	0.436 pg/L	0.436U pg/L
EB-SA6-SB-071311(RES)	2,3,4,6,7,8-HXCDF	0.468 pg/L	0.468U pg/L
EB-SA6-SB-071311(RES)	2,3,4,7,8-PECDF	0.599 pg/L	0.599U pg/L
EB-SA6-SB-071311(RES)	OCDD	10.3 pg/L	10.3U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX112 **Laboratory: LL**

EDD Filename: DX112_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2070B370724	7/29/2011 7:24:00 AM	1,2,3,4,6,7,8-HPCDD	0.365 ng/Kg	SL-037-SA6-SS-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.0647 ng/Kg	SL-046-SA6-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0217 ng/Kg	SL-048-SA6-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0221 ng/Kg	SL-049-SA6-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0231 ng/Kg	SL-050-SA6-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0227 ng/Kg	SL-051-SA6-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0584 ng/Kg	SL-052-SA6-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0259 ng/Kg	SL-053-SA6-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0195 ng/Kg	SL-054-SA6-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0391 ng/Kg	SL-055-SA6-SS-0.0-0.5
		OCDD	0.801 ng/Kg	SL-060-SA6-SS-0.0-0.5
		OCDF	0.114 ng/Kg	SL-063-SA6-SS-0.0-0.5
				SL-064-SA6-SS-0.0-0.5
				SL-072-SA6-SB-4.0-5.0
				SL-072-SA6-SB-9.0-10.0
				SL-083-SA6-SB-4.0-5.0
				SL-083-SA6-SB-9.0-10.0
				SL-116-SA6-SB-2.5-3.5
				SL-118-SA6-SB-10.5-11.5
				SL-118-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-037-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.241 ng/Kg	0.241U ng/Kg
SL-072-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0446 ng/Kg	0.0446U ng/Kg
SL-072-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0351 ng/Kg	0.0351U ng/Kg
SL-072-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.103 ng/Kg	0.103U ng/Kg
SL-072-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0549 ng/Kg	0.0549U ng/Kg
SL-072-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0759 ng/Kg	0.0759U ng/Kg
SL-072-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.473 ng/Kg	0.473U ng/Kg
SL-072-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0757 ng/Kg	0.0757U ng/Kg
SL-072-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0166 ng/Kg	0.0166U ng/Kg
SL-072-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0455 ng/Kg	0.0455U ng/Kg
SL-072-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0320 ng/Kg	0.0320U ng/Kg
SL-072-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0228 ng/Kg	0.0228U ng/Kg
SL-072-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0450 ng/Kg	0.0450U ng/Kg
SL-072-SA6-SB-9.0-10.0(RES)	OCDD	1.39 ng/Kg	1.39U ng/Kg
SL-072-SA6-SB-9.0-10.0(RES)	OCDF	0.106 ng/Kg	0.106U ng/Kg
SL-116-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.403 ng/Kg	0.403U ng/Kg
SL-116-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0489 ng/Kg	0.0489U ng/Kg
SL-116-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDD	0.0213 ng/Kg	0.0213U ng/Kg
SL-116-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0202 ng/Kg	0.0202U ng/Kg
SL-116-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.0551 ng/Kg	0.0551U ng/Kg
SL-116-SA6-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.0636 ng/Kg	0.0636U ng/Kg
SL-116-SA6-SB-2.5-3.5(RES)	OCDD	0.949 ng/Kg	0.949U ng/Kg
SL-116-SA6-SB-2.5-3.5(RES)	OCDF	0.141 ng/Kg	0.141U ng/Kg
SL-118-SA6-SB-10.5-11.5(RES)	1,2,3,4,6,7,8-HPCDD	0.871 ng/Kg	0.871U ng/Kg
SL-118-SA6-SB-10.5-11.5(RES)	1,2,3,4,6,7,8-HPCDF	0.222 ng/Kg	0.222U ng/Kg
SL-118-SA6-SB-10.5-11.5(RES)	1,2,3,6,7,8-HXCDD	0.0497 ng/Kg	0.0497U ng/Kg
SL-118-SA6-SB-10.5-11.5(RES)	1,2,3,6,7,8-HXCDF	0.0336 ng/Kg	0.0336U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX112 **Laboratory: LL**

EDD Filename: DX112_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-118-SA6-SB-10.5-11.5(RES)	1,2,3,7,8,9-HXCDD	0.0350 ng/Kg	0.0350U ng/Kg
SL-118-SA6-SB-10.5-11.5(RES)	2,3,4,6,7,8-HXCDF	0.0423 ng/Kg	0.0423U ng/Kg
SL-118-SA6-SB-10.5-11.5(RES)	2,3,4,7,8-PECDF	0.133 ng/Kg	0.133U ng/Kg
SL-118-SA6-SB-10.5-11.5(RES)	OCDD	3.27 ng/Kg	3.27U ng/Kg
SL-118-SA6-SB-10.5-11.5(RES)	OCDF	0.321 ng/Kg	0.321U ng/Kg
SL-118-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0762 ng/Kg	0.0762U ng/Kg
SL-118-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0667 ng/Kg	0.0667U ng/Kg
SL-118-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.139 ng/Kg	0.139U ng/Kg
SL-118-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0400 ng/Kg	0.0400U ng/Kg

Reporting Limit Outliers

Lab Reporting Batch ID: DX112 **Laboratory: LL**

EDD Filename: DX112_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-071311	1,2,3,4,6,7,8-HPCDD	JB	5.30	9.90	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	0.693	9.90	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.237	9.90	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.270	9.90	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.309	9.90	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.367	9.90	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.158	9.90	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.520	9.90	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.331	9.90	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.436	9.90	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.468	9.90	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.599	9.90	PQL	pg/L	
	OCDD	JB	10.3	19.8	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.64	4.95	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.564	4.95	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.109	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.130	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.248	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.247	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.143	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.241	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.134	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.138	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.225	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.176	4.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.335	4.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0774	0.990	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.158	0.990	PQL	ng/Kg	
	OCDF	JB	1.06	9.90	PQL	ng/Kg	
SL-046-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.832	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.677	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.25	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.09	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.448	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.28	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.186	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.278	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.833	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.561	4.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.757	4.95	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0661	0.990	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.457	0.990	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX112 **Laboratory: LL**

EDD Filename: DX112_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-048-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.02	4.98	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.222	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.179	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.625	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.613	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.197	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.441	4.98	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.111	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.122	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.700	4.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.200	4.98	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0402	0.996	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.224	0.996	PQL	ng/Kg	
SL-049-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.17	5.01	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.306	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.367	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.280	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.564	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.298	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.726	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.334	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.331	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.268	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.321	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.326	5.01	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0442	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0848	1.00	PQL	ng/Kg	
	OCDF	JB	2.91	10.0	PQL	ng/Kg	
SL-050-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.911	5.06	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.546	5.06	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.480	5.06	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.96	5.06	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.154	5.06	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	1.12	5.06	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.404	5.06	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.577	5.06	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.406	5.06	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.301	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.178	1.01	PQL	ng/Kg	
SL-051-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.20	5.07	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.347	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.359	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.534	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.46	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.352	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.22	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.118	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.312	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.190	5.07	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.272	5.07	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.712	5.07	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0457	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.330	1.01	PQL	ng/Kg	
	OCDF	JB	7.68	10.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX112 **Laboratory: LL**

EDD Filename: DX112_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-052-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.82	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.578	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.64	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.59	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.93	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.430	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.309	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.40	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	2.07	5.02	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0332	1.00	PQL	ng/Kg	
SL-053-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.89	4.97	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.392	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.291	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.327	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.22	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.244	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.944	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.109	4.97	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.266	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.221	4.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.267	4.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.359	4.97	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0396	0.994	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.138	0.994	PQL	ng/Kg	
	OCDF	JB	9.23	9.94	PQL	ng/Kg	
SL-054-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.580	5.06	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.407	5.06	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.567	5.06	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.74	5.06	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.357	5.06	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.02	5.06	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.109	5.06	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.277	5.06	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.521	5.06	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.442	5.06	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.529	5.06	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0688	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.306	1.01	PQL	ng/Kg	
SL-055-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.98	5.03	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.364	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.278	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.399	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.15	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.328	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.913	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.151	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.194	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.369	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.298	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.596	5.03	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0545	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.287	1.01	PQL	ng/Kg	
	OCDF	JB	6.88	10.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX112 **Laboratory: LL**

EDD Filename: DX112_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-060-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.77	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.961	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.42	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.40	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.972	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.96	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.232	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.541	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.698	5.07	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.25	5.07	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.947	5.07	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0809	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.696	1.01	PQL	ng/Kg	
SL-063-SA6-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	J	3.28	5.14	PQL	ng/Kg	J (all detects)
SL-064-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	4.83	5.11	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	2.99	5.11	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.41	5.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.87	5.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.415	5.11	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	1.35	5.11	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.891	5.11	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.14	5.11	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.818	5.11	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.268	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.413	1.02	PQL	ng/Kg	
SL-072-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	4.27	5.56	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	2.22	5.56	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.142	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0446	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.194	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,6,7,8-HXCDF	JBQ	0.0351	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.103	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0549	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0759	5.56	PQL	ng/Kg	
	OCDF	JB	9.54	11.1	PQL	ng/Kg	
SL-072-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.473	5.69	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0757	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0166	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0455	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0463	5.69	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0320	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0228	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0450	5.69	PQL	ng/Kg	
	OCDD	JB	1.39	11.4	PQL	ng/Kg	
	OCDF	JB	0.106	11.4	PQL	ng/Kg	
SL-083-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	2.50	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	3.64	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.29	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.770	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.17	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.258	5.12	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	2.05	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.328	5.12	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.39	5.12	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.614	5.12	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.260	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.468	1.02	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX112 **Laboratory: LL**

EDD Filename: DX112_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-083-SA6-SB-9.0-10.0	1,2,3,4,7,8-HxCDD	J	4.28	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.13	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.66	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.530	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.32	5.45	PQL	ng/Kg	J (all detects)
	2,3,4,6,7,8-HXCDF	JB	3.10	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.20	5.45	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.683	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.846	1.09	PQL	ng/Kg	
SL-116-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	0.403	5.33	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0489	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0298	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0213	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0202	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0551	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0439	5.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0636	5.33	PQL	ng/Kg	
	OCDD	JB	0.949	10.7	PQL	ng/Kg	
	OCDF	JBQ	0.141	10.7	PQL	ng/Kg	
SL-118-SA6-SB-10.5-11.5	1,2,3,4,6,7,8-HPCDD	JB	0.871	5.17	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.222	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0497	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0336	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0350	5.17	PQL	ng/Kg	J (all detects)
	2,3,4,6,7,8-HXCDF	JBQ	0.0423	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.133	5.17	PQL	ng/Kg	
	OCDD	JB	3.27	10.3	PQL	ng/Kg	
	OCDF	JBQ	0.321	10.3	PQL	ng/Kg	
SL-118-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	0.999	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.140	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0762	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.277	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0667	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.139	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.266	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0400	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.205	5.57	PQL	ng/Kg	
	OCDF	JB	2.93	11.1	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX113

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
14-Jul-2011	SL-074-SA6-SB-4.0-5.0	6345471	N	METHOD	1613B	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MS	6345472	MS	METHOD	1613B	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MSD	6345473	MSD	METHOD	1613B	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MSD	P345471M372101	MSD	METHOD	1613B	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MS	P345471R372004	MS	METHOD	1613B	III
14-Jul-2011	DUP02-SA6-QC-071411	6345477	FD	METHOD	1613B	III
14-Jul-2011	SL-074-SA6-SB-9.0-10.0	6345474	N	METHOD	1613B	III
14-Jul-2011	SL-088-SA6-SB-4.0-5.0	6345475	N	METHOD	1613B	III
14-Jul-2011	SL-088-SA6-SB-9.0-10.0	6345476	N	METHOD	1613B	III
14-Jul-2011	SL-071-SA6-SB-4.0-5.0	6345469	N	METHOD	1613B	III
14-Jul-2011	SL-071-SA6-SB-6.0-7.0	6345470	N	METHOD	1613B	III
18-Jul-2011	SL-133-SA6-SS-0.0-0.5	6348199	N	METHOD	1613B	III
18-Jul-2011	SL-134-SA6-SS-0.0-0.5	6348200	N	METHOD	1613B	III
18-Jul-2011	SL-128-SA6-SS-0.0-0.5	6348198	N	METHOD	1613B	III
18-Jul-2011	SL-145-SA6-SS-0.0-0.5	6348203	N	METHOD	1613B	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5	6348197	N	METHOD	1613B	III
18-Jul-2011	SL-146-SA6-SS-0.0-0.5	6348204	N	METHOD	1613B	III
18-Jul-2011	SL-147-SA6-SS-0.0-0.5	6348205	N	METHOD	1613B	III
18-Jul-2011	SL-142-SA6-SS-0.0-0.5	6348201	N	METHOD	1613B	III
18-Jul-2011	SL-143-SA6-SS-0.0-0.5	6348202	N	METHOD	1613B	III
18-Jul-2011	SL-148-SA6-SS-0.0-0.5	6348206	N	METHOD	1613B	III
18-Jul-2011	SL-150-SA6-SS-0.0-0.5	6348207	N	METHOD	1613B	III
18-Jul-2011	SL-155-SA6-SS-0.0-0.5	6348209	N	METHOD	1613B	III
18-Jul-2011	SL-152-SA6-SS-0.0-0.5	6348208	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX113 **Laboratory: LL**

EDD Filename: PrepDX113_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: DUP02-SA6-QC-071411 *Collected:* 7/14/2011 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
1,2,3,4,7,8,9-HPCDF	3.12	JB	0.0861	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.90	JB	0.114	MDL	5.25	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	1.32	JB	0.0747	MDL	5.25	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.948	JB	0.0701	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.93	JB	0.115	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.283	JBQ	0.0725	MDL	5.25	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	2.93	JB	0.0614	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.407	JB	0.0483	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.44	JB	0.0661	MDL	5.25	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	0.942	JB	0.0461	MDL	5.25	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.341	J	0.0197	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.715	J	0.112	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	6150	EB	0.174	MDL	10.5	PQL	ng/Kg	J	*XI

Sample ID: SL-071-SA6-SB-4.0-5.0 *Collected:* 7/14/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.12	JB	0.0674	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.589	JBQ	0.0772	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.845	JB	0.0529	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.55	JB	0.0803	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.396	JB	0.0481	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.04	JB	0.0743	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.204	JB	0.0499	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.673	JB	0.0303	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.173	JB	0.0423	MDL	5.29	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.686	JB	0.0443	MDL	5.29	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.793	JB	0.0400	MDL	5.29	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0595	JQ	0.0137	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.813	J	0.101	MDL	1.06	PQL	ng/Kg	J	Z

Sample ID: SL-071-SA6-SB-6.0-7.0 *Collected:* 7/14/2011 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
2,3,7,8-TCDF	1.00	JC	0.0475	MDL	1.07	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX113 **Laboratory:** LL

EDD Filename: PrepDX113_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-071-SA6-SB-6.0-7.0 *Collected:* 7/14/2011 2:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	4.38	JB	0.155	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.57	JB	0.118	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.11	JB	0.109	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.988	JB	0.101	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.561	JB	0.0624	MDL	5.35	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.81	JB	0.0917	MDL	5.35	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.28	JB	0.0591	MDL	5.35	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.679	J	0.0344	MDL	1.07	PQL	ng/Kg	J	Z

Sample ID: SL-074-SA6-SB-4.0-5.0 *Collected:* 7/14/2011 8:15:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.905	JC	0.0558	MDL	1.03	PQL	ng/Kg	J	Z

Sample ID: SL-074-SA6-SB-4.0-5.0 *Collected:* 7/14/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	423	B	0.314	MDL	5.13	PQL	ng/Kg	J	Q, Q
1,2,3,4,7,8,9-HPCDF	4.56	JB	0.110	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.19	JB	0.143	MDL	5.13	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	2.66	JB	0.109	MDL	5.13	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	1.46	JB	0.107	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.80	JB	0.145	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.662	JB	0.101	MDL	5.13	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	4.06	JB	0.0918	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.380	JBQ	0.0627	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.53	JB	0.0925	MDL	5.13	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	1.31	JB	0.0582	MDL	5.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.299	JQ	0.0281	MDL	1.03	PQL	ng/Kg	J	Z
OCDD	7280	EB	0.232	MDL	10.3	PQL	ng/Kg	J	*XI

Sample ID: SL-074-SA6-SB-9.0-10.0 *Collected:* 7/14/2011 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
1,2,3,4,7,8,9-HPCDF	2.11	JB	0.0766	MDL	5.42	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX113 **Laboratory:** LL

EDD Filename: PrepDX113_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-074-SA6-SB-9.0-10.0 ***Collected:*** 7/14/2011 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
1,2,3,4,7,8-HxCDD	1.59	JB	0.102	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.72	JB	0.0610	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.57	JB	0.107	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.02	JB	0.0611	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.91	JB	0.102	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.62	JB	0.0578	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.880	JB	0.0441	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.47	JB	0.0537	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.25	JB	0.0404	MDL	5.42	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.132	J	0.0209	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: SL-088-SA6-SB-4.0-5.0 ***Collected:*** 7/14/2011 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
1,2,3,4,7,8,9-HPCDF	0.697	JB	0.0807	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.331	JB	0.0687	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.924	JB	0.0748	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.51	JB	0.0734	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.365	JB	0.0716	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.743	JB	0.0702	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.212	JB	0.0524	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.591	JB	0.0278	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.148	JBQ	0.0379	MDL	5.36	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.439	JB	0.0445	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.540	JB	0.0373	MDL	5.36	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0880	JQ	0.0214	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.426	J	0.0783	MDL	1.07	PQL	ng/Kg	J	Z

Sample ID: SL-088-SA6-SB-9.0-10.0 ***Collected:*** 7/14/2011 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
1,2,3,4,6,7,8-HPCDD	0.471	JB	0.0284	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0987	JBQ	0.00903	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0569	JB	0.0168	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0457	JBQ	0.0149	MDL	5.17	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX113 **Laboratory:** LL

EDD Filename: PrepDX113_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-088-SA6-SB-9.0-10.0 **Collected:** 7/14/2011 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
1,2,3,4,7,8-HXCDF	0.0798	JB	0.0215	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0725	JBQ	0.0153	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0655	JB	0.0181	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0547	JBQ	0.0146	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0762	JB	0.0226	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0822	JBQ	0.0168	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0766	JB	0.0104	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.123	JBQ	0.0173	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.162	JB	0.0105	MDL	5.17	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0343	JQ	0.0159	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0206	JQ	0.0134	MDL	1.03	PQL	ng/Kg	J	Z
OCDD	1.94	JB	0.0335	MDL	10.3	PQL	ng/Kg	U	B
OCDF	0.181	JB	0.0366	MDL	10.3	PQL	ng/Kg	U	B

Sample ID: SL-127-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 9:42:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.584	JBQ	0.0429	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.344	JB	0.0600	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.78	JB	0.0584	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.01	JB	0.0627	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.539	JB	0.0557	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.719	JB	0.0582	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.285	JB	0.0424	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.164	JB	0.0250	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.141	JB	0.0302	MDL	5.03	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.544	JB	0.0373	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.646	JB	0.0271	MDL	5.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0522	J	0.0156	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.228	JQ	0.0533	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-128-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 9:14:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.598	JBQ	0.0466	MDL	5.02	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX113 **Laboratory: LL**

EDD Filename: PrepDX113_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **GENCHEM**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-128-SA6-SS-0.0-0.5** ***Collected:*** **7/18/2011 9:14:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.306	JBQ	0.0568	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.08	JB	0.0441	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.962	JB	0.0598	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.337	JB	0.0424	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.571	JB	0.0573	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.207	JB	0.0403	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.164	JBQ	0.0214	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0924	JB	0.0182	MDL	5.02	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.404	JB	0.0329	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.307	JB	0.0192	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0697	J	0.0308	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	9.05	JB	0.0445	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: **SL-133-SA6-SS-0.0-0.5** ***Collected:*** **7/18/2011 7:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.509	JB	0.0368	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.162	JB	0.0465	MDL	4.86	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	2.11	JB	0.0451	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.716	JB	0.0496	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.452	JBQ	0.0421	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.389	JB	0.0484	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.225	JB	0.0437	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.150	JBQ	0.0172	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.119	JB	0.0228	MDL	4.86	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.454	JB	0.0357	MDL	4.86	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.664	JB	0.0223	MDL	4.86	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0788	J	0.0133	MDL	0.972	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.126	J	0.0399	MDL	0.972	PQL	ng/Kg	J	Z
OCDF	6.61	JB	0.0418	MDL	9.72	PQL	ng/Kg	J	Z

Sample ID: **SL-134-SA6-SS-0.0-0.5** ***Collected:*** **7/18/2011 8:29:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.91	JB	0.0281	MDL	5.00	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX113 **Laboratory:** LL

EDD Filename: PrepDX113_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-134-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 8:29:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.500	JB	0.0371	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.175	JB	0.0467	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	3.62	JB	0.0714	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.790	JB	0.0473	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.521	JB	0.0695	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.492	JB	0.0464	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.263	JB	0.0778	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.154	JBQ	0.0320	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.63	JB	0.0637	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.477	JB	0.0712	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.00	JB	0.0618	MDL	5.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.264	JQ	0.0156	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.449	J	0.116	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	8.11	JB	0.0325	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-142-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 10:43:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.457	JBQ	0.0423	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.428	JBQ	0.0586	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.78	JB	0.0490	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.11	JB	0.0602	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.437	JB	0.0471	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.794	JB	0.0585	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.202	JB	0.0496	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.285	JB	0.0316	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.434	JB	0.0417	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.478	JB	0.0464	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.682	JB	0.0398	MDL	4.98	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.273	JQ	0.0183	MDL	0.996	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.463	JQ	0.0802	MDL	0.996	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX113 **Laboratory: LL**

EDD Filename: PrepDX113_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **GENCHEM**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: SL-143-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 11:10:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.19	JB	0.0384	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.446	JBQ	0.0539	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.190	JBQ	0.0494	MDL	4.99	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	1.87	JB	0.0426	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.832	JB	0.0518	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.373	JB	0.0401	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.503	JBQ	0.0506	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.188	JB	0.0310	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.187	JB	0.0297	MDL	4.99	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.456	JB	0.0387	MDL	4.99	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.608	JB	0.0307	MDL	4.99	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.125	JQ	0.0146	MDL	0.998	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.238	J	0.0538	MDL	0.998	PQL	ng/Kg	J	Z
OCDF	7.18	JB	0.0494	MDL	9.98	PQL	ng/Kg	J	Z

Sample ID: SL-145-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 9:33:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.19	JBQ	0.0737	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.276	JB	0.0473	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.29	JB	0.0502	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.20	JB	0.0585	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.606	JBQ	0.0418	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.558	JB	0.0489	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.182	JB	0.0218	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.381	JB	0.0353	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.28	JB	0.0423	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.70	JB	0.0341	MDL	5.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.293	JQ	0.0148	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.356	J	0.0558	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-146-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 10:23:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.45	JB	0.0632	MDL	5.03	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX113 **Laboratory:** LL

EDD Filename: PrepDX113_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-146-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 10:23:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.471	JBQ	0.0558	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.52	JB	0.0595	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.79	JB	0.0570	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.10	JBQ	0.0569	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.895	JB	0.0554	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.444	JB	0.0626	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.343	JBQ	0.0274	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.430	JB	0.0581	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.25	JB	0.0542	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.95	JB	0.0547	MDL	5.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0937	JQ	0.0145	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.706	J	0.116	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-147-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 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
1,2,3,4,7,8,9-HPCDF	0.506	JB	0.0275	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.380	JB	0.0332	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.83	JB	0.0288	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.22	JB	0.0340	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.443	JB	0.0274	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.795	JB	0.0341	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.205	JB	0.0276	MDL	4.88	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.333	JB	0.0303	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.348	JBQ	0.0283	MDL	4.88	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.472	JB	0.0248	MDL	4.88	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.641	JB	0.0254	MDL	4.88	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.383	J	0.0195	MDL	0.976	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.423	J	0.0482	MDL	0.976	PQL	ng/Kg	J	Z
OCDF	8.56	JB	0.0219	MDL	9.76	PQL	ng/Kg	J	Z

Sample ID: SL-148-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 11:40:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.911	JC	0.0503	MDL	1.00	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX113 **Laboratory:** LL

EDD Filename: PrepDX113_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-148-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 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
1,2,3,4,7,8,9-HPCDF	1.35	JB	0.0740	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.654	JB	0.0796	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.64	JB	0.0810	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.31	JB	0.0869	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.976	JB	0.0822	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.31	JB	0.0793	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.453	JB	0.0584	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.380	JBQ	0.0405	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.404	JB	0.0708	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.12	JB	0.0524	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.40	JB	0.0704	MDL	5.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0687	JQ	0.0173	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-150-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 12:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.610	JB	0.0654	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.355	JB	0.0523	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.25	JB	0.0753	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.11	JB	0.0565	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.426	JB	0.0736	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.761	JB	0.0525	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.223	JB	0.0639	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.246	JB	0.0297	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.176	JB	0.0500	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.511	JB	0.0493	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.882	JB	0.0500	MDL	4.97	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0834	JQ	0.0143	MDL	0.995	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.654	JQ	0.105	MDL	0.995	PQL	ng/Kg	J	Z

Sample ID: SL-152-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 3:08:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.76	JB	0.0432	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.289	JBQ	0.0628	MDL	4.99	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX113 **Laboratory: LL**

EDD Filename: PrepDX113_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-152-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 3:08:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.239	JBQ	0.0508	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.461	JB	0.0472	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.789	JB	0.0544	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.180	JBQ	0.0414	MDL	4.99	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.712	JB	0.0417	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.144	JBQ	0.0398	MDL	4.99	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.157	JBQ	0.0217	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.116	JB	0.0178	MDL	4.99	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.213	JB	0.0295	MDL	4.99	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.208	JB	0.0198	MDL	4.99	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0340	J	0.0140	MDL	0.997	PQL	ng/Kg	J	Z
OCDF	6.57	JB	0.0507	MDL	9.97	PQL	ng/Kg	J	Z

Sample ID: SL-155-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 2:16:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.37	JB	0.0215	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.176	JBQ	0.0357	MDL	4.93	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.415	JB	0.0545	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.342	JBQ	0.0298	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.960	JB	0.0559	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.175	JB	0.0266	MDL	4.93	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.953	JB	0.0525	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.262	JBQ	0.0317	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.253	JB	0.0285	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.133	JB	0.0210	MDL	4.93	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.200	JB	0.0255	MDL	4.93	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.293	JB	0.0225	MDL	4.93	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0356	JQ	0.0144	MDL	0.986	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.232	J	0.0379	MDL	0.986	PQL	ng/Kg	J	Z
OCDF	6.23	JB	0.0359	MDL	9.86	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX113 **Laboratory: LL**

EDD Filename: PrepDX113_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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
*XI	Compound Quantitation and CRQL
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

Data Qualifier Summary

Lab Reporting Batch ID: DX113 **Laboratory: LL**

EDD Filename: PrepDX113_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: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX113 **Laboratory: LL**

EDD Filename: PrepDX113_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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX113

Method Blank Outlier Report

Lab Reporting Batch ID: DX113 **Laboratory: LL**

EDD Filename: PrepDX113_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2080B371029	8/5/2011 10:29:00 AM	2,3,7,8-TCDF	0.0552 ng/Kg	SL-071-SA6-SB-6.0-7.0 SL-074-SA6-SB-4.0-5.0 SL-074-SA6-SB-9.0-10.0 SL-148-SA6-SS-0.0-0.5
BLK2080B371316	7/29/2011 1:16:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF OCDD OCDF	0.905 ng/Kg 0.0836 ng/Kg 0.0469 ng/Kg 0.0394 ng/Kg 0.0405 ng/Kg 0.0632 ng/Kg 0.0381 ng/Kg 0.0739 ng/Kg 0.0439 ng/Kg 0.0291 ng/Kg 0.0313 ng/Kg 0.0445 ng/Kg 0.0505 ng/Kg 4.79 ng/Kg 0.136 ng/Kg	DUP02-SA6-QC-071411 SL-071-SA6-SB-4.0-5.0 SL-071-SA6-SB-6.0-7.0 SL-074-SA6-SB-4.0-5.0 SL-074-SA6-SB-9.0-10.0 SL-088-SA6-SB-4.0-5.0 SL-088-SA6-SB-9.0-10.0 SL-127-SA6-SS-0.0-0.5 SL-128-SA6-SS-0.0-0.5 SL-133-SA6-SS-0.0-0.5 SL-134-SA6-SS-0.0-0.5 SL-142-SA6-SS-0.0-0.5 SL-143-SA6-SS-0.0-0.5 SL-145-SA6-SS-0.0-0.5 SL-146-SA6-SS-0.0-0.5 SL-147-SA6-SS-0.0-0.5 SL-148-SA6-SS-0.0-0.5 SL-150-SA6-SS-0.0-0.5 SL-152-SA6-SS-0.0-0.5 SL-155-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-071-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.204 ng/Kg	0.204U ng/Kg
SL-088-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.212 ng/Kg	0.212U ng/Kg
SL-088-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.148 ng/Kg	0.148U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.471 ng/Kg	0.471U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0987 ng/Kg	0.0987U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0569 ng/Kg	0.0569U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0457 ng/Kg	0.0457U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0798 ng/Kg	0.0798U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0725 ng/Kg	0.0725U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0655 ng/Kg	0.0655U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0547 ng/Kg	0.0547U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0762 ng/Kg	0.0762U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0822 ng/Kg	0.0822U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0766 ng/Kg	0.0766U ng/Kg

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DX113 **Laboratory: LL**

EDD Filename: PrepDX113_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-088-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.123 ng/Kg	0.123U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.162 ng/Kg	0.162U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	OCDD	1.94 ng/Kg	1.94U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	OCDF	0.181 ng/Kg	0.181U ng/Kg
SL-127-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.141 ng/Kg	0.141U ng/Kg
SL-128-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.207 ng/Kg	0.207U ng/Kg
SL-128-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0924 ng/Kg	0.0924U ng/Kg
SL-133-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.162 ng/Kg	0.162U ng/Kg
SL-133-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.119 ng/Kg	0.119U ng/Kg
SL-134-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.175 ng/Kg	0.175U ng/Kg
SL-142-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.202 ng/Kg	0.202U ng/Kg
SL-143-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.190 ng/Kg	0.190U ng/Kg
SL-147-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.205 ng/Kg	0.205U ng/Kg
SL-152-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.180 ng/Kg	0.180U ng/Kg
SL-152-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.144 ng/Kg	0.144U ng/Kg
SL-152-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.116 ng/Kg	0.116U ng/Kg
SL-152-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.213 ng/Kg	0.213U ng/Kg
SL-152-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.208 ng/Kg	0.208U ng/Kg
SL-155-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.176 ng/Kg	0.176U ng/Kg
SL-155-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.175 ng/Kg	0.175U ng/Kg
SL-155-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.133 ng/Kg	0.133U ng/Kg
SL-155-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.200 ng/Kg	0.200U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX113 **Laboratory: LL**

EDD Filename: DX113_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-074-SA6-SB-4.0-5.0MS SL-074-SA6-SB-4.0-5.0MSD (SL-074-SA6-SB-4.0-5.0)	1,2,3,4,6,7,8-HPCDD OCDD	-195 -2301	-124 -1694	40.00-135.00 40.00-135.00	30 (20.00) 44 (20.00)	1,2,3,4,6,7,8-HPCDD OCDD	J (all detects) R (all non-detects) OCDD No Qual, >4x

Field Duplicate RPD Report

Lab Reporting Batch ID: DX113 **Laboratory: LL**

EDD Filename: DX113_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-074-SA6-SB-4.0-5.0	DUP02-SA6-QC-071411			
MOISTURE	7.0	6.8	3		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-074-SA6-SB-4.0-5.0	DUP02-SA6-QC-071411			
1,2,3,4,6,7,8-HPCDD	423	312	30	50.00	
1,2,3,4,6,7,8-HPCDF	43.9	32.2	31	50.00	
1,2,3,4,7,8,9-HPCDF	4.56	3.12	37	50.00	
1,2,3,6,7,8-HXCDD	9.65	7.58	24	50.00	
1,2,3,6,7,8-HXCDF	1.46	0.948	43	50.00	
1,2,3,7,8,9-HXCDD	3.80	2.93	26	50.00	
1,2,3,7,8-PECDD	4.06	2.93	32	50.00	No Qualifiers Applied
1,2,3,7,8-PECDF	0.380	0.407	7	50.00	
2,3,4,7,8-PECDF	1.31	0.942	33	50.00	
2,3,7,8-TCDD	0.299	0.341	13	50.00	
2,3,7,8-TCDF	0.905	0.715	23	50.00	
OCDD	7280	6150	17	50.00	
OCDF	132	98.8	29	50.00	
1,2,3,4,7,8-HxCDD	2.19	3.90	56	50.00	
1,2,3,4,7,8-HXCDF	2.66	1.32	67	50.00	J(all detects)
1,2,3,7,8,9-HXCDF	0.662	0.283	80	50.00	
2,3,4,6,7,8-HXCDF	2.53	1.44	55	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX113 **Laboratory:** LL

EDD Filename: DX113_v1. **eQAPP Name:** CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SA6-QC-071411	1,2,3,4,7,8,9-HPCDF	JB	3.12	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	3.90	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.32	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.948	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.93	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.283	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	2.93	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.407	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.44	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.942	5.25	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.341	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.715	1.05	PQL	ng/Kg	
SL-071-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	1.12	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.589	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.845	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.55	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.396	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.04	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.204	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.673	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.173	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.686	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.793	5.29	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0595	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.813	1.06	PQL	ng/Kg	
SL-071-SA6-SB-6.0-7.0	1,2,3,4,7,8-HxCDD	JB	4.38	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.57	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.11	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.988	5.35	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.561	5.35	PQL	ng/Kg	J (all detects)
	2,3,4,6,7,8-HXCDF	JB	3.81	5.35	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.28	5.35	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.679	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	1.00	1.07	PQL	ng/Kg	
SL-074-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	4.56	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.19	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.66	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.46	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.80	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.662	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	4.06	5.13	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.380	5.13	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.53	5.13	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.31	5.13	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.299	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.905	1.03	PQL	ng/Kg	
SL-074-SA6-SB-9.0-10.0	1,2,3,4,7,8,9-HPCDF	JB	2.11	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.59	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.72	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.57	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.02	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.91	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.62	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.880	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.47	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.25	5.42	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.132	1.08	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX113 **Laboratory: LL**

EDD Filename: DX113_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-088-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	0.697	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.331	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.924	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.51	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.365	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.743	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.212	5.36	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.591	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.148	5.36	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.439	5.36	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.540	5.36	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0880	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.426	1.07	PQL	ng/Kg	
SL-088-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.471	5.17	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0987	5.17	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0569	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0457	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0798	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0725	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0655	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0547	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0762	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0822	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0766	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.123	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.162	5.17	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0343	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0206	1.03	PQL	ng/Kg	
	OCDD	JB	1.94	10.3	PQL	ng/Kg	
	OCDF	JB	0.181	10.3	PQL	ng/Kg	
SL-127-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.584	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.344	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.78	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.01	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.539	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.719	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.285	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.164	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.141	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.544	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.646	5.03	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0522	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.228	1.01	PQL	ng/Kg	
SL-128-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.598	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.306	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.08	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.962	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.337	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.571	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.207	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.164	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0924	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.404	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.307	5.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0697	1.00	PQL	ng/Kg	
	OCDF	JB	9.05	10.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX113 **Laboratory: LL**

EDD Filename: DX113_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-133-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.509	4.86	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.162	4.86	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.11	4.86	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.716	4.86	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.452	4.86	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.389	4.86	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.225	4.86	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.150	4.86	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.119	4.86	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.454	4.86	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.664	4.86	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0788	0.972	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.126	0.972	PQL	ng/Kg	
	OCDF	JB	6.61	9.72	PQL	ng/Kg	
SL-134-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.91	5.00	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.500	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.175	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.62	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.790	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.521	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.492	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.263	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.154	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.63	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.477	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.00	5.00	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.264	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.449	1.00	PQL	ng/Kg	
	OCDF	JB	8.11	10.0	PQL	ng/Kg	
SL-142-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.457	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.428	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.78	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.11	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.437	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.794	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.202	4.98	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.285	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.434	4.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.478	4.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.682	4.98	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.273	0.996	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.463	0.996	PQL	ng/Kg	
SL-143-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.19	4.99	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.446	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.190	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.87	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.832	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.373	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.503	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.188	4.99	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.187	4.99	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.456	4.99	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.608	4.99	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.125	0.998	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.238	0.998	PQL	ng/Kg	
	OCDF	JB	7.18	9.98	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX113 **Laboratory: LL**

EDD Filename: DX113_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-145-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	1.19	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.276	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.29	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.20	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.606	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.558	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.182	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.381	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.28	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.70	5.01	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.293	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.356	1.00	PQL	ng/Kg	
SL-146-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.45	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.471	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.52	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.79	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	1.10	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.895	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.444	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.343	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.430	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.25	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.95	5.03	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0937	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.706	1.01	PQL	ng/Kg	
SL-147-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.506	4.88	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.380	4.88	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.83	4.88	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.22	4.88	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.443	4.88	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.795	4.88	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.205	4.88	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.333	4.88	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.348	4.88	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.472	4.88	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.641	4.88	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.383	0.976	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.423	0.976	PQL	ng/Kg	
	OCDF	JB	8.56	9.76	PQL	ng/Kg	
SL-148-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.35	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.654	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.64	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.31	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.976	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.31	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.453	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.380	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.404	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.12	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.40	5.01	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0687	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.911	1.00	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX113 **Laboratory: LL**

EDD Filename: DX113_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-150-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.610	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.355	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.25	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.11	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.426	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.761	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.223	4.97	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.246	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.176	4.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.511	4.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.882	4.97	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0834	0.995	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.654	0.995	PQL	ng/Kg	
SL-152-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.76	4.99	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.289	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.239	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.461	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.789	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.180	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.712	4.99	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.144	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.157	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.116	4.99	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.213	4.99	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.208	4.99	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0340	0.997	PQL	ng/Kg	
	OCDF	JB	6.57	9.97	PQL	ng/Kg	
SL-155-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.37	4.93	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.176	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.415	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.342	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.960	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.175	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.953	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.262	4.93	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.253	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.133	4.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.200	4.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.293	4.93	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0356	0.986	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.232	0.986	PQL	ng/Kg	
	OCDF	JB	6.23	9.86	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX114

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
13-Jul-2011	SL-058-SA6-SS-0.0-0.5	6347008	N	METHOD	1613B	III
13-Jul-2011	SL-056-SA6-SS-0.0-0.5	6347007	N	METHOD	1613B	III
14-Jul-2011	SL-043-SA6-SS-0.0-0.5	6346997	N	METHOD	1613B	III
14-Jul-2011	SL-044-SA6-SS-0.0-0.5	6346998	N	METHOD	1613B	III
14-Jul-2011	SL-302-SA6-SS-0.0-0.5	6347000	N	METHOD	1613B	III
14-Jul-2011	SL-303-SA6-SS-0.0-0.5	6347001	N	METHOD	1613B	III
14-Jul-2011	SL-304-SA6-SS-0.0-0.5	6347002	N	METHOD	1613B	III
14-Jul-2011	SL-005-SA6-SS-0.0-0.5	6346994	N	METHOD	1613B	III
14-Jul-2011	SL-004-SA6-SS-0.0-0.5	6346993	N	METHOD	1613B	III
14-Jul-2011	SL-020-SA6-SS-0.0-0.5	6346995	N	METHOD	1613B	III
14-Jul-2011	SL-029-SA6-SS-0.0-0.5	6346996	N	METHOD	1613B	III
14-Jul-2011	SL-126-SA6-SS-0.0-0.5	6346999	N	METHOD	1613B	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5	6347003	N	METHOD	1613B	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MS	6347004	MS	METHOD	1613B	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MSD	6347005	MSD	METHOD	1613B	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MSD	P347003M371219	MSD	METHOD	1613B	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MS	P347003R372300	MS	METHOD	1613B	III
14-Jul-2011	DUP03-SA6-QC-071511	6347006	FD	METHOD	1613B	III
18-Jul-2011	SL-293-SA6-SS-0.0-0.5	6348214	N	METHOD	1613B	III
18-Jul-2011	SL-176-SA6-SS-0.0-0.5	6348210	N	METHOD	1613B	III
18-Jul-2011	SL-182-SA6-SS-0.0-0.5	6348211	N	METHOD	1613B	III
18-Jul-2011	SL-183-SA6-SS-0.0-0.5	6348212	N	METHOD	1613B	III
18-Jul-2011	SL-184-SA6-SS-0.0-0.5	6348213	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX114 **Laboratory: LL**

EDD Filename: DX114_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: DUP03-SA6-QC-071511 ***Collected:*** 7/14/2011 2:59:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	50.6	B	0.106	MDL	4.98	PQL	ng/Kg	J	FD
1,2,3,4,6,7,8-HPCDF	7.54	B	0.0409	MDL	4.98	PQL	ng/Kg	J	FD
1,2,3,4,7,8,9-HPCDF	0.779	JBQ	0.0733	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.454	JB	0.0846	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.94	JB	0.0710	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.26	JB	0.0848	MDL	4.98	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.757	JB	0.0619	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.815	JB	0.0835	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.339	JB	0.0820	MDL	4.98	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.214	JBQ	0.0298	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.84	JB	0.0602	MDL	4.98	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.640	JB	0.0687	MDL	4.98	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	1.21	JB	0.0647	MDL	4.98	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0368	JQ	0.0140	MDL	0.996	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.659	JB	0.127	MDL	0.996	PQL	ng/Kg	J	Z
OCDD	593	B	0.0945	MDL	9.96	PQL	ng/Kg	J	FD
OCDF	15.4	B	0.0529	MDL	9.96	PQL	ng/Kg	J	FD

Sample ID: SL-004-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 11:16:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	2.08	JB	0.0945	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.89	JB	0.0869	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.01	JB	0.0801	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.87	JB	0.0977	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.724	JB	0.0834	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.996	JB	0.0506	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.25	JB	0.0612	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	4.79	JB	0.0728	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.88	JB	0.0611	MDL	4.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0866	JQ	0.0155	MDL	0.989	PQL	ng/Kg	J	Z
OCDD	8530	EB	0.165	MDL	9.89	PQL	ng/Kg	J	*XI

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX114 **Laboratory: LL**

EDD Filename: DX114_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-005-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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
1,2,3,4,7,8,9-HPCDF	3.14	JB	0.0800	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.60	JB	0.0954	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.44	JB	0.0928	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.45	JB	0.169	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.12	JB	0.136	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	4.72	JB	0.145	MDL	4.96	PQL	ng/Kg	J	Z

Sample ID: SL-020-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 12:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4970	EB	0.581	MDL	5.11	PQL	ng/Kg	J	*XI
OCDD	64000	EB	0.392	MDL	10.2	PQL	ng/Kg	J	*XI

Sample ID: SL-029-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 1:26:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.05	JB	0.0815	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.699	JB	0.0752	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.23	JB	0.0877	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.18	JB	0.0780	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.07	JB	0.0729	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.52	JB	0.0706	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.327	JB	0.0915	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.387	JBQ	0.0469	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.48	JB	0.0647	MDL	4.92	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.09	JB	0.0618	MDL	4.92	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.13	JB	0.0759	MDL	4.92	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0595	J	0.0190	MDL	0.985	PQL	ng/Kg	J	Z

Sample ID: SL-043-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 7:41:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.422	JB	0.0542	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.731	JB	0.0716	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.860	JB	0.0547	MDL	5.04	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX114 **Laboratory: LL**

EDD Filename: DX114_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-043-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 7:41:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	2.36	JB	0.0741	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.475	JB	0.0474	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.77	JB	0.0690	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.495	JB	0.0459	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.416	JBQ	0.0320	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.228	JBQ	0.0210	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.542	JB	0.0385	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.533	JB	0.0220	MDL	5.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0818	JQ	0.0149	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.128	JB	0.0230	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-044-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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
1,2,3,4,7,8,9-HPCDF	2.83	JB	0.103	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	4.57	JB	0.0883	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.28	JB	0.0792	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.38	JB	0.0733	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	2.83	JB	0.0830	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.00	JB	0.0666	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.48	JB	0.0371	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.00	JB	0.0696	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.66	JB	0.0381	MDL	5.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.332	J	0.0171	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.337	JB	0.0346	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	6250	EB	0.181	MDL	10.1	PQL	ng/Kg	J	*XI

Sample ID: SL-056-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 3:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.924	JBQ	0.0601	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.206	JB	0.0534	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.715	JB	0.0549	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.57	JB	0.0833	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.481	JB	0.0518	MDL	5.04	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX114 **Laboratory: LL**

EDD Filename: DX114_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-056-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 3:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.441	JBQ	0.124	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.269	JBQ	0.0641	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.33	JB	0.0912	MDL	5.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0237	JQ	0.0168	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-058-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 3:02:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.29	JB	0.0932	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.537	JB	0.0784	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.39	JB	0.0614	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.44	JB	0.0818	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.774	JB	0.0501	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.58	JB	0.0767	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.157	JB	0.0752	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.252	JB	0.0262	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.802	JB	0.0357	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.929	JB	0.0566	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.429	JB	0.0405	MDL	4.94	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0637	JQ	0.0123	MDL	0.988	PQL	ng/Kg	J	Z

Sample ID: SL-126-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.727	JB	0.0527	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.702	JB	0.0547	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.32	JB	0.0502	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.86	JB	0.0571	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.531	JB	0.0476	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.45	JB	0.0571	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.179	JB	0.0448	MDL	4.89	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.424	JB	0.0313	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.443	JB	0.0390	MDL	4.89	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.540	JB	0.0403	MDL	4.89	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.690	JB	0.0372	MDL	4.89	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX114 **Laboratory:** LL

EDD Filename: DX114_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-126-SA6-SS-0.0-0.5 **Collected:** 7/14/2011 2:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.0554	J	0.0131	MDL	0.978	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.672	JB	0.0823	MDL	0.978	PQL	ng/Kg	J	Z

Sample ID: SL-176-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 2:34:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.41	JB	0.0235	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.191	JB	0.0386	MDL	4.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.247	JB	0.0514	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.460	JB	0.0376	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.819	JB	0.0535	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.223	JBQ	0.0357	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.723	JB	0.0505	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.135	JBQ	0.0438	MDL	4.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.223	JB	0.0280	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.396	JB	0.0312	MDL	4.81	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.268	JB	0.0367	MDL	4.81	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.380	JB	0.0316	MDL	4.81	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0366	JQ	0.0133	MDL	0.962	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.207	JB	0.0446	MDL	0.962	PQL	ng/Kg	J	Z
OCDF	5.26	JB	0.0306	MDL	9.62	PQL	ng/Kg	J	Z

Sample ID: SL-182-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 2:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.884	JB	0.0358	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.08	JB	0.0354	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.595	JB	0.0241	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.13	JB	0.0354	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.457	JB	0.0234	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.37	JB	0.0331	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.177	JB	0.0268	MDL	4.95	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.635	JB	0.0384	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.246	JB	0.0201	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.483	JB	0.0233	MDL	4.95	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX114 **Laboratory: LL**

EDD Filename: DX114_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-182-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 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
2,3,4,7,8-PECDF	0.331	JB	0.0187	MDL	4.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0483	JQ	0.0226	MDL	0.990	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.107	JBQ	0.0325	MDL	0.990	PQL	ng/Kg	J	Z

Sample ID: SL-183-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 3:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.90	JB	0.0187	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.305	JB	0.0310	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.380	JB	0.0355	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.247	JB	0.0204	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.932	JB	0.0360	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.201	JB	0.0183	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.802	JB	0.0356	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0846	JB	0.0211	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.232	JBQ	0.0265	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.107	JBQ	0.0139	MDL	4.92	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.243	JB	0.0189	MDL	4.92	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.167	JB	0.0136	MDL	4.92	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0521	JQ	0.0192	MDL	0.985	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0433	JBQ	0.0214	MDL	0.985	PQL	ng/Kg	U	B
OCDF	9.28	JB	0.0314	MDL	9.85	PQL	ng/Kg	J	Z

Sample ID: SL-184-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 3:27:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.01	JB	0.0508	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.792	JB	0.0357	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.78	JB	0.0403	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.59	JB	0.0351	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.711	JB	0.0361	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.68	JB	0.0348	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.178	JB	0.0400	MDL	4.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.461	JB	0.0404	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.728	JB	0.0359	MDL	4.81	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX114 **Laboratory:** LL

EDD Filename: DX114_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-184-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.904	JB	0.0352	MDL	4.81	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.955	JB	0.0372	MDL	4.81	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0873	JQ	0.0235	MDL	0.961	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.598	JB	0.0801	MDL	0.961	PQL	ng/Kg	J	Z

Sample ID: SL-286-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:54:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	147	B	0.147	MDL	4.99	PQL	ng/Kg	J	Q, FD
1,2,3,4,6,7,8-HPCDF	17.7	B	0.0396	MDL	4.99	PQL	ng/Kg	J	FD
1,2,3,4,7,8,9-HPCDF	1.27	JB	0.0684	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.526	JB	0.0528	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.34	JB	0.0750	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.20	JB	0.0552	MDL	4.99	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	1.13	JB	0.0645	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.898	JB	0.0519	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0804	U	0.0804	MDL	4.99	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDD	0.210	JB	0.0318	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.70	JB	0.0569	MDL	4.99	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	1.14	JB	0.0640	MDL	4.99	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	1.30	JB	0.0616	MDL	4.99	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0432	JQ	0.0131	MDL	0.999	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.765	JB	0.120	MDL	0.999	PQL	ng/Kg	J	Z
OCDD	2100	B	0.0955	MDL	9.99	PQL	ng/Kg	J	FD
OCDF	32.2	B	0.0431	MDL	9.99	PQL	ng/Kg	J	FD

Sample ID: SL-293-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 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
1,2,3,4,6,7,8-HPCDF	2.25	JB	0.0168	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.230	JB	0.0279	MDL	4.93	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.142	JB	0.0340	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.917	JB	0.0308	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.528	JB	0.0336	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.219	JBQ	0.0270	MDL	4.93	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX114 **Laboratory: LL**

EDD Filename: DX114_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-293-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 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
1,2,3,7,8,9-HXCDD	0.383	JB	0.0334	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.108	JBQ	0.0338	MDL	4.93	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.361	JB	0.0261	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.315	JB	0.0239	MDL	4.93	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.234	JB	0.0277	MDL	4.93	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.240	JB	0.0239	MDL	4.93	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.102	JQ	0.0248	MDL	0.985	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0948	JB	0.0442	MDL	0.985	PQL	ng/Kg	J	Z
OCDF	3.58	JB	0.0317	MDL	9.85	PQL	ng/Kg	J	Z

Sample ID: SL-302-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.89	JB	0.136	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	4.43	JB	0.0812	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	3.88	JB	0.111	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.60	JB	0.127	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.40	JB	0.0748	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	4.62	JB	0.0895	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	4.39	JB	0.0749	MDL	5.12	PQL	ng/Kg	J	Z
OCDD	7830	EB	0.187	MDL	10.2	PQL	ng/Kg	J	*XI

Sample ID: SL-303-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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
2,3,7,8-TCDF	0.885	JBCQ	0.0673	MDL	1.02	PQL	ng/Kg	J	Z

Sample ID: SL-303-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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
1,2,3,4,7,8,9-HPCDF	2.84	JB	0.0884	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	4.84	JB	0.112	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.48	JB	0.0885	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.40	JB	0.0853	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.54	JB	0.100	MDL	5.09	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX114 **Laboratory: LL**

EDD Filename: DX114_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: SL-303-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 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*
1,2,3,7,8-PECDF	1.59	JB	0.0867	MDL	5.09	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.31	JB	0.0799	MDL	5.09	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	4.41	JB	0.0855	MDL	5.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.464	J	0.0298	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	5780	EB	0.154	MDL	10.2	PQL	ng/Kg	J	*XI

Sample ID: SL-304-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 9:14:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,3,4,7,8,9-HPCDF	1.49	JB	0.114	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.57	JB	0.0927	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.31	JB	0.0828	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.77	JB	0.0709	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.38	JB	0.0983	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.33	JB	0.0893	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.941	JB	0.0690	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.91	JB	0.0806	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.97	JB	0.0724	MDL	5.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.250	J	0.0274	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.723	JB	0.136	MDL	1.02	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX114 **Laboratory: LL**

EDD Filename: DX114_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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
*XI	Compound Quantitation and CRQLs
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

Data Qualifier Summary

Lab Reporting Batch ID: DX114 **Laboratory: LL**

EDD Filename: DX114_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: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX114 **Laboratory: LL**

EDD Filename: DX114_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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX114

Method Blank Outlier Report

Lab Reporting Batch ID: DX114 **Laboratory: LL**

EDD Filename: DX114_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2090B372004	7/30/2011 8:04:00 PM	1,2,3,4,6,7,8-HPCDD	0.228 ng/Kg	DUP03-SA6-QC-071511
		1,2,3,4,6,7,8-HPCDF	0.0803 ng/Kg	SL-004-SA6-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0699 ng/Kg	SL-005-SA6-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0135 ng/Kg	SL-020-SA6-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0396 ng/Kg	SL-029-SA6-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0232 ng/Kg	SL-043-SA6-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0322 ng/Kg	SL-044-SA6-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0330 ng/Kg	SL-056-SA6-SS-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.0727 ng/Kg	SL-058-SA6-SS-0.0-0.5
		1,2,3,7,8-PECDD	0.0309 ng/Kg	SL-126-SA6-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0241 ng/Kg	SL-176-SA6-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0357 ng/Kg	SL-182-SA6-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0487 ng/Kg	SL-183-SA6-SS-0.0-0.5
		2,3,7,8-TCDF	0.0129 ng/Kg	SL-184-SA6-SS-0.0-0.5
		OCDD	0.465 ng/Kg	SL-286-SA6-SS-0.0-0.5
		OCDF	0.177 ng/Kg	SL-293-SA6-SS-0.0-0.5
				SL-302-SA6-SS-0.0-0.5
				SL-303-SA6-SS-0.0-0.5
				SL-304-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
DUP03-SA6-QC-071511(RES)	1,2,3,7,8,9-HXCDF	0.339 ng/Kg	0.339U ng/Kg
SL-029-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.327 ng/Kg	0.327U ng/Kg
SL-058-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.157 ng/Kg	0.157U ng/Kg
SL-126-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.179 ng/Kg	0.179U ng/Kg
SL-176-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.191 ng/Kg	0.191U ng/Kg
SL-176-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-182-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.177 ng/Kg	0.177U ng/Kg
SL-183-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.305 ng/Kg	0.305U ng/Kg
SL-183-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0846 ng/Kg	0.0846U ng/Kg
SL-183-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.107 ng/Kg	0.107U ng/Kg
SL-183-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.167 ng/Kg	0.167U ng/Kg
SL-183-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0433 ng/Kg	0.0433U ng/Kg
SL-184-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.178 ng/Kg	0.178U ng/Kg
SL-293-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.230 ng/Kg	0.230U ng/Kg
SL-293-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.108 ng/Kg	0.108U ng/Kg
SL-293-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.240 ng/Kg	0.240U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX114 **Laboratory: LL**

EDD Filename: DX114_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-286-SA6-SS-0.0-0.5MS SL-286-SA6-SS-0.0-0.5MSD (SL-286-SA6-SS-0.0-0.5)	1,2,3,4,6,7,8-HPCDD OCDD	-11 -682	-19 -721	40.00-135.00 40.00-135.00	- -	1,2,3,4,6,7,8-HPCDD OCDD	J (all detects) R (all non-detects) OCDD, No Qual, >4x

Field Duplicate RPD Report

Lab Reporting Batch ID: DX114 Laboratory: LL

EDD Filename: DX114_v1 eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-286-SA6-SS-0.0-0.5	DUP03-SA6-QC-071511			
MOISTURE	0.88	0.81	8		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-286-SA6-SS-0.0-0.5	DUP03-SA6-QC-071511			
1,2,3,4,7,8,9-HPCDF	1.27	0.779	48	50.00	
1,2,3,4,7,8-HxCDD	0.526	0.454	15	50.00	
1,2,3,4,7,8-HXCDF	3.34	2.94	13	50.00	
1,2,3,6,7,8-HXCDF	1.13	0.757	40	50.00	
1,2,3,7,8,9-HXCDD	0.898	0.815	10	50.00	No Qualifiers Applied
1,2,3,7,8-PECDD	0.210	0.214	2	50.00	
2,3,4,7,8-PECDF	1.30	1.21	7	50.00	
2,3,7,8-TCDD	0.0432	0.0368	16	50.00	
2,3,7,8-TCDF	0.765	0.659	15	50.00	
1,2,3,4,6,7,8-HPCDD	147	50.6	98	50.00	
1,2,3,4,6,7,8-HPCDF	17.7	7.54	81	50.00	
1,2,3,6,7,8-HXCDD	2.20	1.26	54	50.00	
1,2,3,7,8,9-HXCDF	4.99 U	0.339	200	50.00	J(all detects)
1,2,3,7,8-PECDF	1.70	2.84	50	50.00	UJ(all non-detects)
2,3,4,6,7,8-HXCDF	1.14	0.640	56	50.00	
OCDD	2100	593	112	50.00	
OCDF	32.2	15.4	71	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX114 **Laboratory: LL**

EDD Filename: DX114_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA6-QC-071511	1,2,3,4,7,8,9-HPCDF	JBQ	0.779	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.454	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.94	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.26	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.757	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.815	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.339	4.98	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.214	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.84	4.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.640	4.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.21	4.98	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0368	0.996	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.659	0.996	PQL	ng/Kg	
SL-004-SA6-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	JB	2.08	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.89	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.01	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.87	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.724	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.996	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.25	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	4.79	4.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.88	4.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0866	0.989	PQL	ng/Kg	
SL-005-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	3.14	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.60	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.44	4.96	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	1.45	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.12	4.96	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	4.72	4.96	PQL	ng/Kg	
SL-029-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.05	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.699	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.23	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.18	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.07	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.52	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.327	4.92	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.387	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.48	4.92	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.09	4.92	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	3.13	4.92	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0595	0.985	PQL	ng/Kg	
SL-043-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.422	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.731	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.860	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.36	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.475	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.77	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.495	5.04	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.416	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.228	5.04	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.542	5.04	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.533	5.04	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0818	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.128	1.01	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX114 **Laboratory: LL**

EDD Filename: DX114_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-044-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.83	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	4.57	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.28	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.38	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	2.83	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.00	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	1.48	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.00	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.66	5.05	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.332	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.337	1.01	PQL	ng/Kg	
SL-056-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.924	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.206	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.715	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.57	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.481	5.04	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.441	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.269	5.04	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.33	5.04	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0237	1.01	PQL	ng/Kg	
SL-058-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.29	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.537	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.39	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.44	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.774	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.58	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.157	4.94	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.252	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.802	4.94	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.929	4.94	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.429	4.94	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0637	0.988	PQL	ng/Kg	
SL-126-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.727	4.89	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.702	4.89	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.32	4.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.86	4.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.531	4.89	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.45	4.89	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.179	4.89	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.424	4.89	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.443	4.89	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.540	4.89	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.690	4.89	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0554	0.978	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.672	0.978	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX114 **Laboratory: LL**

EDD Filename: DX114_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-176-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.41	4.81	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.191	4.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.247	4.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.460	4.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.819	4.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.223	4.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.723	4.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.135	4.81	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.223	4.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.396	4.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.268	4.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.380	4.81	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0366	0.962	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.207	0.962	PQL	ng/Kg	
	OCDF	JB	5.26	9.62	PQL	ng/Kg	
SL-182-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.884	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.08	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.595	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.13	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.457	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.37	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.177	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.635	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.246	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.483	4.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.331	4.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0483	0.990	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.107	0.990	PQL	ng/Kg	
SL-183-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.90	4.92	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.305	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.380	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.247	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.932	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.201	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.802	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0846	4.92	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.232	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.107	4.92	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.243	4.92	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.167	4.92	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0521	0.985	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0433	0.985	PQL	ng/Kg	
	OCDF	JB	9.28	9.85	PQL	ng/Kg	
SL-184-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.01	4.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.792	4.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.78	4.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.59	4.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.711	4.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.68	4.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.178	4.81	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.461	4.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.728	4.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.904	4.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.955	4.81	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0873	0.961	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.598	0.961	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX114 **Laboratory: LL**

EDD Filename: DX114_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-286-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.27	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.526	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.34	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.20	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.13	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.898	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.210	4.99	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	1.70	4.99	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.14	4.99	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.30	4.99	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0432	0.999	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.765	0.999	PQL	ng/Kg	
SL-293-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.25	4.93	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.230	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.142	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.917	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.528	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.219	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.383	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.108	4.93	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.361	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.315	4.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.234	4.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.240	4.93	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.102	0.985	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0948	0.985	PQL	ng/Kg	
	OCDF	JB	3.58	9.85	PQL	ng/Kg	
SL-302-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	3.89	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	4.43	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	3.88	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.60	5.12	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	2.40	5.12	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	4.62	5.12	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	4.39	5.12	PQL	ng/Kg	
SL-303-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.84	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	4.84	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.48	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.40	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.54	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.59	5.09	PQL	ng/Kg	J (all detects)
	2,3,4,6,7,8-HXCDF	JB	3.31	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	4.41	5.09	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.464	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JBCQ	0.885	1.02	PQL	ng/Kg	
SL-304-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.49	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.57	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.31	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.77	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.38	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.33	5.12	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.941	5.12	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.91	5.12	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.97	5.12	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.250	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.723	1.02	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX115

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-Jul-2011	SL-301-SA6-SS-0.0-0.5	6349749	N	METHOD	1613B	IV
19-Jul-2011	SL-174-SA6-SS-0.0-0.5	6349746	N	METHOD	1613B	IV
19-Jul-2011	SL-178-SA6-SS-0.0-0.5	6349747	N	METHOD	1613B	IV
19-Jul-2011	SL-185-SA6-SS-0.0-0.5	6349748	N	METHOD	1613B	IV
19-Jul-2011	SL-084-SA6-SB-4.0-5.0	6349750	N	METHOD	1613B	IV
19-Jul-2011	SL-151-SA6-SS-0.0-0.5	6349739	N	METHOD	1613B	IV
19-Jul-2011	SL-084-SA6-SB-9.0-10.0	6349751	N	METHOD	1613B	IV
19-Jul-2011	SL-154-SA6-SS-0.0-0.5	6349740	N	METHOD	1613B	IV
19-Jul-2011	SL-085-SA6-SB-4.0-5.0	6349752	N	METHOD	1613B	IV
19-Jul-2011	SL-172-SA6-SS-0.0-0.5	6349745	N	METHOD	1613B	IV
19-Jul-2011	SL-085-SA6-SB-7.0-8.0	6349753	N	METHOD	1613B	IV
19-Jul-2011	EB-SA6-SS-071911	6349754	EB	METHOD	1613B	IV
19-Jul-2011	SL-168-SA6-SS-0.0-0.5	6349742	N	METHOD	1613B	IV
19-Jul-2011	SL-169-SA6-SS-0.0-0.5	6349743	N	METHOD	1613B	IV
19-Jul-2011	SL-171-SA6-SS-0.0-0.5	6349744	N	METHOD	1613B	IV
19-Jul-2011	SL-166-SA6-SS-0.0-0.5	6349741	N	METHOD	1613B	IV
20-Jul-2011	SL-160-SA6-SS-0.0-0.5	6351934	N	METHOD	1613B	IV
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MS	6351935	MS	METHOD	1613B	IV
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MSD	6351936	MSD	METHOD	1613B	IV
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MSD	P351934M372107	MSD	METHOD	1613B	IV
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MS	P351934R370839	MS	METHOD	1613B	IV
20-Jul-2011	SL-156-SA6-SS-0.0-0.5	6351931	N	METHOD	1613B	IV
20-Jul-2011	SL-157-SA6-SS-0.0-0.5	6351932	N	METHOD	1613B	IV
20-Jul-2011	SL-159-SA6-SS-0.0-0.5	6351933	N	METHOD	1613B	IV

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX115 **Laboratory:** LL

EDD Filename: PrepDX115_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** AQ

Sample ID: EB-SA6-SS-071911 **Collected:** 7/19/2011 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
1,2,3,4,6,7,8-HPCDD	3.67	JB	0.124	MDL	9.96	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.550	JBQ	0.0524	MDL	9.96	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.319	JBQ	0.0593	MDL	9.96	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.135	JBQ	0.0883	MDL	9.96	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.238	JBQ	0.0568	MDL	9.96	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.273	JBQ	0.0918	MDL	9.96	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.163	JBQ	0.0550	MDL	9.96	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.213	JBQ	0.0921	MDL	9.96	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.288	JBQ	0.0464	MDL	9.96	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.149	JB	0.0495	MDL	9.96	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.104	JB	0.0519	MDL	9.96	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.309	JB	0.0456	MDL	9.96	PQL	pg/L	U	B
2,3,7,8-TCDD	0.172	JBQ	0.0915	MDL	1.99	PQL	pg/L	U	B
2,3,7,8-TCDF	0.0901	JBQ	0.0749	MDL	1.99	PQL	pg/L	U	B
OCDD	7.81	JB	0.0980	MDL	19.9	PQL	pg/L	U	B
OCDF	0.984	JB	0.105	MDL	19.9	PQL	pg/L	U	B

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-084-SA6-SB-4.0-5.0 **Collected:** 7/19/2011 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
1,2,3,4,7,8,9-HPCDF	2.76	JB	0.0688	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	5.21	JB	0.100	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.25	JB	0.0545	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.904	JB	0.0521	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.03	JB	0.0944	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.271	JB	0.0550	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	3.91	JB	0.0720	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.624	JB	0.0378	MDL	5.26	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.41	JB	0.0481	MDL	5.26	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.851	JB	0.0347	MDL	5.26	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.308	J	0.0346	MDL	1.05	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX115 **Laboratory: LL**

EDD Filename: PrepDX115_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-084-SA6-SB-4.0-5.0 *Collected:* 7/19/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.965	JB	0.0778	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	5160	EB	0.191	MDL	10.5	PQL	ng/Kg	J	*XI

Sample ID: SL-084-SA6-SB-9.0-10.0 *Collected:* 7/19/2011 9:45:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	1.05	J BC	0.0405	MDL	1.06	PQL	ng/Kg	J	Z

Sample ID: SL-084-SA6-SB-9.0-10.0 *Collected:* 7/19/2011 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
1,2,3,4,7,8,9-HPCDF	3.54	JB	0.0816	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.59	JB	0.0899	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.77	JB	0.0616	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.25	JB	0.0555	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.00	JB	0.0865	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.403	JB	0.0688	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.586	JBQ	0.0566	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.703	JB	0.0375	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.18	JB	0.0584	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.21	JB	0.0373	MDL	5.32	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.133	J	0.0300	MDL	1.06	PQL	ng/Kg	J	Z

Sample ID: SL-085-SA6-SB-4.0-5.0 *Collected:* 7/19/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.56	JB	0.0529	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.416	JB	0.0148	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0540	JBQ	0.0328	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0344	JBQ	0.0268	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.445	JB	0.0354	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0896	JB	0.0281	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.109	JBQ	0.0294	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.105	JBQ	0.0280	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0532	JBQ	0.0437	MDL	5.42	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX115 **Laboratory:** LL

EDD Filename: PrepDX115_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-085-SA6-SB-4.0-5.0 **Collected:** 7/19/2011 11:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.104	JBQ	0.0257	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.292	JBQ	0.0250	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0877	JBQ	0.0323	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.492	JBQ	0.0248	MDL	5.42	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0493	JQ	0.0317	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0522	JBQ	0.0329	MDL	1.08	PQL	ng/Kg	U	B
OCDD	12.5	B	0.0398	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.696	JB	0.0563	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-085-SA6-SB-7.0-8.0 **Collected:** 7/19/2011 11:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.323	JB	0.0260	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0703	JB	0.00773	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0264	JBQ	0.0158	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0264	JBQ	0.0184	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0622	JB	0.0119	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0477	JB	0.0188	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0214	JBQ	0.0103	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0253	JBQ	0.0181	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0379	JBQ	0.0113	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0280	JBQ	0.0104	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0539	JB	0.0109	MDL	5.41	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0313	JQ	0.0234	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0269	JBQ	0.0176	MDL	1.08	PQL	ng/Kg	U	B
OCDD	1.09	JB	0.0294	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.147	JB	0.0392	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-151-SA6-SS-0.0-0.5 **Collected:** 7/19/2011 9:36:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.775	JB	0.0525	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.961	JB	0.0704	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.774	JB	0.0569	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.17	JB	0.0714	MDL	4.94	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX115 **Laboratory:** LL

EDD Filename: PrepDX115_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-151-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 9:36:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.568	JB	0.0557	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.21	JB	0.0704	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.436	JB	0.0568	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.610	JB	0.0630	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.663	JB	0.0473	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.683	JB	0.0527	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.860	JB	0.0428	MDL	4.94	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0808	J	0.0372	MDL	0.988	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.528	JB	0.113	MDL	0.988	PQL	ng/Kg	J	Z

Sample ID: SL-154-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 10:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.36	JB	0.0700	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.96	JB	0.0639	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.29	JB	0.0552	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.642	JB	0.0540	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.381	JB	0.0562	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.95	JB	0.0598	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.532	JB	0.0372	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.755	JB	0.0510	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.489	JBQ	0.0331	MDL	5.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.230	JQ	0.0324	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.203	JBQ	0.0624	MDL	1.00	PQL	ng/Kg	U	B

Sample ID: SL-156-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 8:31:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.979	JB	0.0179	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0613	JB	0.0231	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.259	JB	0.0408	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0802	JBQ	0.0205	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.582	JB	0.0414	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0742	JBQ	0.0191	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.820	JB	0.0401	MDL	5.03	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX115 **Laboratory: LL**

EDD Filename: PrepDX115_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-156-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 8:31:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.114	JBQ	0.0190	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.226	JBQ	0.0269	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0282	JBQ	0.0140	MDL	5.03	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0736	JB	0.0172	MDL	5.03	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.101	JBQ	0.0127	MDL	5.03	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0263	JBQ	0.0206	MDL	1.01	PQL	ng/Kg	U	B
OCDF	2.34	JB	0.0305	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: SL-157-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 9:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.56	JB	0.0219	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.155	JBQ	0.0263	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.470	JB	0.0527	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.257	JB	0.0278	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.31	JB	0.0519	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.160	JB	0.0258	MDL	4.86	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.08	JB	0.0524	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0988	JB	0.0260	MDL	4.86	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.274	JB	0.0299	MDL	4.86	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0502	JBQ	0.0202	MDL	4.86	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.181	JB	0.0235	MDL	4.86	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.181	JB	0.0175	MDL	4.86	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0780	J	0.0316	MDL	0.972	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0476	JBQ	0.0329	MDL	0.972	PQL	ng/Kg	U	B
OCDF	8.41	JB	0.0456	MDL	9.72	PQL	ng/Kg	J	Z

Sample ID: SL-159-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.23	JB	0.0189	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.210	JB	0.0258	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.546	JB	0.0475	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.297	JB	0.0284	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.13	JB	0.0473	MDL	5.01	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX115 **Laboratory:** LL

EDD Filename: PrepDX115_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-159-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.183	JBQ	0.0257	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.09	JB	0.0464	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.176	JBQ	0.0280	MDL	5.01	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.318	JBQ	0.0340	MDL	5.01	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0674	JBQ	0.0163	MDL	5.01	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.229	JB	0.0236	MDL	5.01	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.211	JBQ	0.0161	MDL	5.01	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0680	JQ	0.0316	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	5.82	JB	0.0431	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-160-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.12	JB	0.0170	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.332	JB	0.0287	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.276	JB	0.0460	MDL	4.96	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.246	JB	0.0257	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.594	JB	0.0472	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.169	JB	0.0229	MDL	4.96	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.472	JB	0.0465	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.134	JBQ	0.0290	MDL	4.96	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.108	JBQ	0.0278	MDL	4.96	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0290	JBQ	0.0141	MDL	4.96	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.204	JBQ	0.0237	MDL	4.96	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.125	JBQ	0.0138	MDL	4.96	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0392	JQ	0.0287	MDL	0.992	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0274	U	0.0274	MDL	0.992	PQL	ng/Kg	UJ	FD
OCDF	6.53	JB	0.0355	MDL	9.92	PQL	ng/Kg	J	Z

Sample ID: SL-166-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 3:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.16	JB	0.0279	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.268	JB	0.0359	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.568	JB	0.0674	MDL	5.02	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX115 **Laboratory:** LL

EDD Filename: PrepDX115_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-166-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 3:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.325	JB	0.0343	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.50	JB	0.0688	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.214	JBQ	0.0319	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.31	JB	0.0660	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.211	JBQ	0.0351	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.372	JBQ	0.0396	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0963	JBQ	0.0221	MDL	5.02	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.250	JBQ	0.0318	MDL	5.02	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.177	JB	0.0203	MDL	5.02	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0489	JQ	0.0384	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	7.06	JB	0.0357	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-168-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 1:02:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.429	JB	0.0414	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.928	JB	0.0678	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.479	JB	0.0397	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.00	JB	0.0666	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.378	JB	0.0347	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.49	JB	0.0654	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.271	JB	0.0329	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.650	JB	0.0430	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.149	JBQ	0.0226	MDL	4.90	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.349	JB	0.0290	MDL	4.90	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.406	JBQ	0.0206	MDL	4.90	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.120	J	0.0270	MDL	0.979	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.174	JBQ	0.0465	MDL	0.979	PQL	ng/Kg	U	B

Sample ID: SL-169-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 1:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2380	EB	0.369	MDL	4.88	PQL	ng/Kg	J	*XI
1,2,3,7,8-PECDF	4.12	JB	0.101	MDL	4.88	PQL	ng/Kg	J	Z
OCDD	71800	EB	0.726	MDL	9.77	PQL	ng/Kg	J	*XI

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX115 **Laboratory:** LL

EDD Filename: PrepDX115_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-171-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 2:21:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.58	JB	0.0140	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.108	JBQ	0.0152	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.632	JB	0.0398	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.219	JBQ	0.0228	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.41	JB	0.0406	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.173	JB	0.0218	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.56	JB	0.0376	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.223	JBQ	0.0204	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.558	JB	0.0278	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.231	JB	0.0143	MDL	4.98	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.209	JB	0.0180	MDL	4.98	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.316	JB	0.0121	MDL	4.98	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.119	JBQ	0.0217	MDL	0.996	PQL	ng/Kg	U	B
OCDF	5.85	JB	0.0285	MDL	9.96	PQL	ng/Kg	J	Z

Sample ID: SL-172-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 11:18:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.90	JB	0.0310	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.148	JBQ	0.0356	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.329	JB	0.0585	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.590	JB	0.0410	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.38	JB	0.0575	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.193	JB	0.0396	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.901	JB	0.0573	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.203	JB	0.0395	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.185	JBQ	0.0313	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.393	JB	0.0326	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.214	JB	0.0343	MDL	5.32	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.870	JB	0.0289	MDL	5.32	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0595	JQ	0.0254	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0594	JBQ	0.0332	MDL	1.06	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX115 **Laboratory:** LL

EDD Filename: PrepDX115_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-174-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.69	JB	0.0171	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.132	JBQ	0.0275	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.177	JBQ	0.0427	MDL	4.83	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.344	JB	0.0291	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.383	JB	0.0426	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.147	JB	0.0261	MDL	4.83	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.439	JB	0.0401	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0911	JB	0.0325	MDL	4.83	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.108	JB	0.0271	MDL	4.83	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.156	JB	0.0280	MDL	4.83	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.198	JB	0.0279	MDL	4.83	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.491	JB	0.0275	MDL	4.83	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.128	JBQ	0.0427	MDL	0.966	PQL	ng/Kg	U	B
OCDF	4.02	JB	0.0319	MDL	9.66	PQL	ng/Kg	J	Z

Sample ID: SL-178-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:40:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.792	J BC	0.0572	MDL	0.965	PQL	ng/Kg	J	Z

Sample ID: SL-178-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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
1,2,3,4,7,8-HXCDF	4.10	JB	0.0864	MDL	4.82	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.34	JB	0.0856	MDL	4.82	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.628	JB	0.0851	MDL	4.82	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	3.02	JB	0.0973	MDL	4.82	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.84	JB	0.0807	MDL	4.82	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.23	JB	0.0728	MDL	4.82	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.330	JQ	0.0363	MDL	0.965	PQL	ng/Kg	J	Z

Sample ID: SL-185-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 9:21:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.63	JB	0.0247	MDL	5.22	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX115 Laboratory: LL

EDD Filename: PrepDX115_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-185-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 9:21:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.230	JB	0.0317	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.471	JBQ	0.0528	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.619	JB	0.0423	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.14	JB	0.0538	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.320	JB	0.0408	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.02	JB	0.0518	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.139	JB	0.0447	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.269	JB	0.0371	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.773	JB	0.0501	MDL	5.22	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.328	JB	0.0386	MDL	5.22	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.71	JB	0.0451	MDL	5.22	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0385	JQ	0.0267	MDL	1.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.173	JB	0.0585	MDL	1.04	PQL	ng/Kg	U	B
OCDF	6.97	JB	0.0328	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-301-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.463	JB	0.0487	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.684	JB	0.0584	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.84	JB	0.0612	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.45	JB	0.0607	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.473	JB	0.0532	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.69	JB	0.0608	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.322	JBQ	0.0642	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.518	JB	0.0584	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.728	JB	0.0510	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.499	JB	0.0538	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.976	JB	0.0482	MDL	5.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.140	J	0.0408	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.946	JB	0.122	MDL	1.01	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX115 **Laboratory: LL**

EDD Filename: PrepDX115_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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
*XI	Compound Quantitation and CRQL
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

Data Qualifier Summary

Lab Reporting Batch ID: DX115 **Laboratory: LL**

EDD Filename: PrepDX115_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

Data Qualifier Summary

Lab Reporting Batch ID: DX115 **Laboratory: LL**

EDD Filename: PrepDX115_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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX115

Method Blank Outlier Report

Lab Reporting Batch ID: DX115

Laboratory: LL

EDD Filename: DX115_v1.

eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2240B371404	8/16/2011 2:04:00 PM	1,2,3,4,6,7,8-HPCDD	3.99 pg/L	EB-SA6-SS-071911
		1,2,3,4,6,7,8-HPCDF	0.817 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.551 pg/L	
		1,2,3,4,7,8-HxCDD	0.200 pg/L	
		1,2,3,4,7,8-HXCDF	0.405 pg/L	
		1,2,3,6,7,8-HXCDD	0.373 pg/L	
		1,2,3,6,7,8-HXCDF	0.218 pg/L	
		1,2,3,7,8,9-HXCDD	0.458 pg/L	
		1,2,3,7,8,9-HXCDF	0.595 pg/L	
		1,2,3,7,8-PECDD	0.437 pg/L	
		1,2,3,7,8-PECDF	0.280 pg/L	
		2,3,4,6,7,8-HXCDF	0.268 pg/L	
		2,3,4,7,8-PECDF	0.450 pg/L	
		2,3,7,8-TCDD	0.457 pg/L	
		2,3,7,8-TCDF	0.139 pg/L	
		OCDD	8.97 pg/L	
		OCDF	1.57 pg/L	

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-SS-071911(RES)	1,2,3,4,6,7,8-HPCDD	3.67 pg/L	3.67U pg/L
EB-SA6-SS-071911(RES)	1,2,3,4,6,7,8-HPCDF	0.550 pg/L	0.550U pg/L
EB-SA6-SS-071911(RES)	1,2,3,4,7,8,9-HPCDF	0.319 pg/L	0.319U pg/L
EB-SA6-SS-071911(RES)	1,2,3,4,7,8-HxCDD	0.135 pg/L	0.135U pg/L
EB-SA6-SS-071911(RES)	1,2,3,4,7,8-HXCDF	0.238 pg/L	0.238U pg/L
EB-SA6-SS-071911(RES)	1,2,3,6,7,8-HXCDD	0.273 pg/L	0.273U pg/L
EB-SA6-SS-071911(RES)	1,2,3,6,7,8-HXCDF	0.163 pg/L	0.163U pg/L
EB-SA6-SS-071911(RES)	1,2,3,7,8,9-HXCDD	0.213 pg/L	0.213U pg/L
EB-SA6-SS-071911(RES)	1,2,3,7,8,9-HXCDF	0.288 pg/L	0.288U pg/L
EB-SA6-SS-071911(RES)	1,2,3,7,8-PECDF	0.149 pg/L	0.149U pg/L
EB-SA6-SS-071911(RES)	2,3,4,6,7,8-HXCDF	0.104 pg/L	0.104U pg/L
EB-SA6-SS-071911(RES)	2,3,4,7,8-PECDF	0.309 pg/L	0.309U pg/L
EB-SA6-SS-071911(RES)	2,3,7,8-TCDD	0.172 pg/L	0.172U pg/L
EB-SA6-SS-071911(RES)	2,3,7,8-TCDF	0.0901 pg/L	0.0901U pg/L
EB-SA6-SS-071911(RES)	OCDD	7.81 pg/L	7.81U pg/L
EB-SA6-SS-071911(RES)	OCDF	0.984 pg/L	0.984U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX115 **Laboratory: LL**

EDD Filename: DX115_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2100B371502	8/1/2011 3:02:00 PM	1,2,3,4,6,7,8-HPCDD	1.10 ng/Kg	SL-084-SA6-SB-4.0-5.0
		1,2,3,4,6,7,8-HPCDF	0.0960 ng/Kg	SL-084-SA6-SB-9.0-10.0
		1,2,3,4,7,8,9-HPCDF	0.0192 ng/Kg	SL-085-SA6-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0831 ng/Kg	SL-085-SA6-SB-7.0-8.0
		1,2,3,4,7,8-HXCDF	0.0448 ng/Kg	SL-151-SA6-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0751 ng/Kg	SL-154-SA6-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0341 ng/Kg	SL-156-SA6-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0786 ng/Kg	SL-157-SA6-SS-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.0484 ng/Kg	SL-159-SA6-SS-0.0-0.5
		1,2,3,7,8-PECDD	0.0724 ng/Kg	SL-160-SA6-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0473 ng/Kg	SL-166-SA6-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0534 ng/Kg	SL-168-SA6-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0459 ng/Kg	SL-169-SA6-SS-0.0-0.5
		2,3,7,8-TCDF	0.0475 ng/Kg	SL-171-SA6-SS-0.0-0.5
		OCDD	8.35 ng/Kg	SL-172-SA6-SS-0.0-0.5
		OCDF	0.174 ng/Kg	SL-174-SA6-SS-0.0-0.5
				SL-178-SA6-SS-0.0-0.5
				SL-185-SA6-SS-0.0-0.5
				SL-301-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-085-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.56 ng/Kg	1.56U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.416 ng/Kg	0.416U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0540 ng/Kg	0.0540U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0344 ng/Kg	0.0344U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0896 ng/Kg	0.0896U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.109 ng/Kg	0.109U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.105 ng/Kg	0.105U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0532 ng/Kg	0.0532U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.104 ng/Kg	0.104U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0877 ng/Kg	0.0877U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0522 ng/Kg	0.0522U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	OCDD	12.5 ng/Kg	12.5U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	OCDF	0.696 ng/Kg	0.696U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	0.323 ng/Kg	0.323U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0703 ng/Kg	0.0703U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0264 ng/Kg	0.0264U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	1,2,3,4,7,8-HxCDD	0.0264 ng/Kg	0.0264U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	1,2,3,4,7,8-HXCDF	0.0622 ng/Kg	0.0622U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDD	0.0477 ng/Kg	0.0477U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDF	0.0214 ng/Kg	0.0214U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDD	0.0253 ng/Kg	0.0253U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	1,2,3,7,8-PECDF	0.0379 ng/Kg	0.0379U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	2,3,4,6,7,8-HXCDF	0.0280 ng/Kg	0.0280U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.0539 ng/Kg	0.0539U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	2,3,7,8-TCDF	0.0269 ng/Kg	0.0269U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	OCDD	1.09 ng/Kg	1.09U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	OCDF	0.147 ng/Kg	0.147U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX115 | Laboratory: LL

EDD Filename: DX115_v1. | eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-154-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.203 ng/Kg	0.203U ng/Kg
SL-156-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0613 ng/Kg	0.0613U ng/Kg
SL-156-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.259 ng/Kg	0.259U ng/Kg
SL-156-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0802 ng/Kg	0.0802U ng/Kg
SL-156-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0742 ng/Kg	0.0742U ng/Kg
SL-156-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.114 ng/Kg	0.114U ng/Kg
SL-156-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.226 ng/Kg	0.226U ng/Kg
SL-156-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0262 ng/Kg	0.0282U ng/Kg
SL-156-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0736 ng/Kg	0.0736U ng/Kg
SL-156-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.101 ng/Kg	0.101U ng/Kg
SL-156-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0263 ng/Kg	0.0263U ng/Kg
SL-157-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.160 ng/Kg	0.160U ng/Kg
SL-157-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0988 ng/Kg	0.0988U ng/Kg
SL-157-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.274 ng/Kg	0.274U ng/Kg
SL-157-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0502 ng/Kg	0.0502U ng/Kg
SL-157-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.181 ng/Kg	0.181U ng/Kg
SL-157-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.181 ng/Kg	0.181U ng/Kg
SL-157-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0476 ng/Kg	0.0476U ng/Kg
SL-159-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.176 ng/Kg	0.176U ng/Kg
SL-159-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.318 ng/Kg	0.318U ng/Kg
SL-159-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0674 ng/Kg	0.0674U ng/Kg
SL-159-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.229 ng/Kg	0.229U ng/Kg
SL-159-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.211 ng/Kg	0.211U ng/Kg
SL-160-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.276 ng/Kg	0.276U ng/Kg
SL-160-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.169 ng/Kg	0.169U ng/Kg
SL-160-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.134 ng/Kg	0.134U ng/Kg
SL-160-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.108 ng/Kg	0.108U ng/Kg
SL-160-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0290 ng/Kg	0.0290U ng/Kg
SL-160-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.204 ng/Kg	0.204U ng/Kg
SL-160-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.125 ng/Kg	0.125U ng/Kg
SL-166-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.211 ng/Kg	0.211U ng/Kg
SL-166-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0963 ng/Kg	0.0963U ng/Kg
SL-166-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.250 ng/Kg	0.250U ng/Kg
SL-166-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.177 ng/Kg	0.177U ng/Kg
SL-168-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.149 ng/Kg	0.149U ng/Kg
SL-168-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.174 ng/Kg	0.174U ng/Kg
SL-171-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.219 ng/Kg	0.219U ng/Kg
SL-171-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.223 ng/Kg	0.223U ng/Kg
SL-171-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.231 ng/Kg	0.231U ng/Kg
SL-171-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.209 ng/Kg	0.209U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX115 Laboratory: LL

EDD Filename: DX115_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-171-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.119 ng/Kg	0.119U ng/Kg
SL-172-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.329 ng/Kg	0.329U ng/Kg
SL-172-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.203 ng/Kg	0.203U ng/Kg
SL-172-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.185 ng/Kg	0.185U ng/Kg
SL-172-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.214 ng/Kg	0.214U ng/Kg
SL-172-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0594 ng/Kg	0.0594U ng/Kg
SL-174-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.177 ng/Kg	0.177U ng/Kg
SL-174-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.147 ng/Kg	0.147U ng/Kg
SL-174-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0911 ng/Kg	0.0911U ng/Kg
SL-174-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.108 ng/Kg	0.108U ng/Kg
SL-174-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.156 ng/Kg	0.156U ng/Kg
SL-174-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.198 ng/Kg	0.198U ng/Kg
SL-174-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.128 ng/Kg	0.128U ng/Kg
SL-185-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.139 ng/Kg	0.139U ng/Kg
SL-185-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.269 ng/Kg	0.269U ng/Kg
SL-185-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.173 ng/Kg	0.173U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX115 **Laboratory: LL**

EDD Filename: PrepDX115_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-160-SA6-SS-0.0-0.5	DUP04-SA6-QC-072011			
MOISTURE	1.7	1.900000000	11		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-160-SA6-SS-0.0-0.5	DUP04-SA6-QC-072011			
1,2,3,4,6,7,8-HPCDD	20.2	25.900000000	25	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	3.12	4.000000000	25	50.00	
1,2,3,4,7,8,9-HPCDF	0.332	0.340000000	2	50.00	
1,2,3,4,7,8-HxCDD	0.276	0.363000000	27	50.00	
1,2,3,4,7,8-HXCDF	0.246	0.318000000	26	50.00	
1,2,3,6,7,8-HXCDD	0.594	0.799000000	29	50.00	
1,2,3,6,7,8-HXCDF	0.169	0.184000000	8	50.00	
1,2,3,7,8,9-HXCDD	0.472	0.680000000	36	50.00	
1,2,3,7,8,9-HXCDF	0.134	0.186000000	32	50.00	
2,3,4,6,7,8-HXCDF	0.204	0.212000000	4	50.00	
2,3,4,7,8-PECDF	0.125	0.127000000	2	50.00	
2,3,7,8-TCDD	0.0392	0.050900000	26	50.00	
OCDD	302	436.000000000	36	50.00	
OCDF	6.53	8.280000000	24	50.00	
1,2,3,7,8-PECDD	0.108	0.193000000	56	50.00	J(all detects) UJ(all non-detects)
1,2,3,7,8-PECDF	0.0290	0.070300000	83	50.00	
2,3,7,8-TCDF	0.992 U	0.042000000	200	50.00	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX115 Laboratory: LL

EDD Filename: DX115_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SS-071911	1,2,3,4,6,7,8-HPCDD	JB	3.67	9.96	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.550	9.96	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.319	9.96	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.135	9.96	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.238	9.96	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.273	9.96	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.163	9.96	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.213	9.96	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.288	9.96	PQL	pg/L	
	1,2,3,7,8-PECDF	JB	0.149	9.96	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	0.104	9.96	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.309	9.96	PQL	pg/L	
	2,3,7,8-TCDD	JBQ	0.172	1.99	PQL	pg/L	
	2,3,7,8-TCDF	JBQ	0.0901	1.99	PQL	pg/L	
	OCDD	JB	7.81	19.9	PQL	pg/L	
	OCDF	JB	0.984	19.9	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-084-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	2.76	5.26	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	5.21	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.25	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.904	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.03	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.271	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	3.91	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.624	5.26	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.41	5.26	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.851	5.26	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.308	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.965	1.05	PQL	ng/Kg	
SL-084-SA6-SB-9.0-10.0	1,2,3,4,7,8,9-HPCDF	JB	3.54	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.59	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.77	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.25	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.00	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.403	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.586	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.703	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.18	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.21	5.32	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.133	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J BC	1.05	1.06	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX115 **Laboratory: LL**

EDD Filename: DX115_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-085-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.56	5.42	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.416	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0540	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0344	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.445	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0896	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.109	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.105	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0532	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.104	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.292	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0877	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.492	5.42	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0493	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0522	1.08	PQL	ng/Kg	
	OCDF	JB	0.696	10.8	PQL	ng/Kg	
SL-085-SA6-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JB	0.323	5.41	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0703	5.41	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0264	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0264	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0622	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0477	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0214	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0253	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0379	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0280	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0539	5.41	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0313	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0269	1.08	PQL	ng/Kg	
	OCDD	JB	1.09	10.8	PQL	ng/Kg	
	OCDF	JB	0.147	10.8	PQL	ng/Kg	
SL-151-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.775	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.961	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.774	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.17	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.568	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.21	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.436	4.94	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.610	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.663	4.94	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.683	4.94	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.860	4.94	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0808	0.988	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.528	0.988	PQL	ng/Kg	
SL-154-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.36	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.96	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.29	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.642	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.381	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.95	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.532	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.755	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.489	5.01	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.230	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.203	1.00	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX115 **Laboratory: LL**

EDD Filename: DX115_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-156-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	0.979	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.0613	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.259	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0802	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.582	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0742	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.820	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.114	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.226	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0282	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0736	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.101	5.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0263	1.01	PQL	ng/Kg	
	OCDF	JB	2.34	10.1	PQL	ng/Kg	
SL-157-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.56	4.86	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.155	4.86	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.470	4.86	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.257	4.86	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.31	4.86	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.160	4.86	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.08	4.86	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0988	4.86	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.274	4.86	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0502	4.86	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.181	4.86	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.181	4.86	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0780	0.972	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0476	0.972	PQL	ng/Kg	
	OCDF	JB	8.41	9.72	PQL	ng/Kg	
SL-159-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.23	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.210	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.546	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.297	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.13	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.183	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.09	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.176	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.318	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0674	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.229	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.211	5.01	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0680	1.00	PQL	ng/Kg	
	OCDF	JB	5.82	10.0	PQL	ng/Kg	
SL-160-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.12	4.96	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.332	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.276	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.246	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.594	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.169	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.472	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.134	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.108	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0290	4.96	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.204	4.96	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.125	4.96	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0392	0.992	PQL	ng/Kg	
	OCDF	JB	6.53	9.92	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX115 **Laboratory: LL**

EDD Filename: DX115_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-166-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.16	5.02	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.268	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.568	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.325	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.50	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.214	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.31	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.211	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.372	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0963	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.250	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.177	5.02	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0489	1.00	PQL	ng/Kg	
	OCDF	JB	7.06	10.0	PQL	ng/Kg	
SL-168-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.429	4.90	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.928	4.90	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.479	4.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.00	4.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.378	4.90	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.49	4.90	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.271	4.90	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.650	4.90	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.149	4.90	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.349	4.90	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.406	4.90	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.120	0.979	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.174	0.979	PQL	ng/Kg	
SL-169-SA6-SS-0.0-0.5	1,2,3,7,8-PECDF	JB	4.12	4.88	PQL	ng/Kg	J (all detects)
SL-171-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.58	4.98	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.108	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.632	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.219	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.41	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.173	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.56	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.223	4.98	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.558	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.231	4.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.209	4.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.316	4.98	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.119	0.996	PQL	ng/Kg	
	OCDF	JB	5.85	9.96	PQL	ng/Kg	
SL-172-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.90	5.32	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.148	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.329	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.590	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.38	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.193	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.901	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.203	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.185	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.393	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.214	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.870	5.32	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0595	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0594	1.06	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX115 **Laboratory: LL**

EDD Filename: DX115_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-174-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.69	4.83	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.132	4.83	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.177	4.83	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.344	4.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.383	4.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.147	4.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.439	4.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0911	4.83	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.108	4.83	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.156	4.83	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.198	4.83	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.491	4.83	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.128	0.966	PQL	ng/Kg	
	OCDF	JB	4.02	9.66	PQL	ng/Kg	
SL-178-SA6-SS-0.0-0.5	1,2,3,4,7,8-HXCDF	JB	4.10	4.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.34	4.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.628	4.82	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	3.02	4.82	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.84	4.82	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JB	3.23	4.82	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.330	0.965	PQL	ng/Kg	
	2,3,7,8-TCDF	J BC	0.792	0.965	PQL	ng/Kg	
SL-185-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.63	5.22	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.230	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.471	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.619	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.14	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.320	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.02	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.139	5.22	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.269	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.773	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.328	5.22	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	3.71	5.22	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0385	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.173	1.04	PQL	ng/Kg	
	OCDF	JB	6.97	10.4	PQL	ng/Kg	
SL-301-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.463	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.684	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.84	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.45	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.473	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.69	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.322	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.518	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.728	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.499	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.976	5.05	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.140	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.946	1.01	PQL	ng/Kg	

Enclosure II

EPA Level IV Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: July 19 through July 20, 2011

LDC Report Date: October 21, 2011

Matrix: Soil/Water

Parameters: Dioxins/Dibenzofurans

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DX115

Sample Identification

SL-151-SA6-SS-0.0-0.5
SL-154-SA6-SS-0.0-0.5
SL-166-SA6-SS-0.0-0.5
SL-168-SA6-SS-0.0-0.5
SL-169-SA6-SS-0.0-0.5
SL-171-SA6-SS-0.0-0.5
SL-172-SA6-SS-0.0-0.5
SL-174-SA6-SS-0.0-0.5
SL-178-SA6-SS-0.0-0.5
SL-185-SA6-SS-0.0-0.5
SL-301-SA6-SS-0.0-0.5
SL-084-SA6-SB-4.0-5.0
SL-084-SA6-SB-9.0-10.0
SL-085-SA6-SB-4.0-5.0
SL-085-SA6-SB-7.0-8.0
EB-SA6-SS-071911
SL-156-SA6-SS-0.0-0.5
SL-157-SA6-SS-0.0-0.5
SL-159-SA6-SS-0.0-0.5
SL-160-SA6-SS-0.0-0.5
SL-160-SA6-SS-0.0-0.5MS
SL-160-SA6-SS-0.0-0.5MSD

Introduction

This data review covers 21 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1613B for Polychlorinated Dioxins/Dibenzofurans.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and the USEPA Contract Laboratory Program National Functional Guidelines for Polychlorinated Dioxins/Dibenzofurans Data Review (September 2005).

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

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

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

II. HRGC/HRMS Instrument Performance Check

Instrument performance was checked at the required daily frequency.

The chromatographic resolution between 2,3,7,8-TCDD and the peaks representing any other unlabeled TCDD isomers was resolved with a valley of less than or equal to 25%.

PFK and static resolving power were within validation criteria.

III. Initial Calibration

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for unlabeled compounds and less than or equal to 35.0% for labeled compounds.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

The minimum S/N ratio was greater than or equal to 10 for each unlabeled compound and labeled compound.

IV. Routine Calibration (Continuing)

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were within QC limits.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated dioxin/dibenzofuran contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
BLK224001	8/12/11	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.139 pg/L 0.457 pg/L 0.280 pg/L 0.450 pg/L 0.437 pg/L 0.405 pg/L 0.218 pg/L 0.268 pg/L 0.200 pg/L 0.373 pg/L 0.458 pg/L 0.595 pg/L 0.817 pg/L 3.99 pg/L 0.551 pg/L 8.97 pg/L 1.57 pg/L	All water samples in SDG DX115
BLK210001	8/12/11	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0475 ng/Kg 0.0473 ng/Kg 0.0459 ng/Kg 0.0724 ng/Kg 0.0448 ng/Kg 0.0341 ng/Kg 0.0534 ng/Kg 0.0831 ng/Kg 0.0751 ng/Kg 0.0786 ng/Kg 0.0484 ng/Kg 0.0960 ng/Kg 1.10 ng/Kg 0.0192 ng/Kg 6.35 ng/Kg 0.174 ng/Kg	All soil samples in SDG DX115

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

Sample	Compound	Reported Concentration	Modified Final Concentration
EB-SA6-SS-071911	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0901 pg/L 0.172 pg/L 0.149 pg/L 0.309 pg/L 0.238 pg/L 0.163 pg/L 0.104 pg/L 0.135 pg/L 0.273 pg/L 0.213 pg/L 0.288 pg/L 0.550 pg/L 3.67 pg/L 0.319 pg/L 7.81 pg/L 0.984 pg/L	0.0901U pg/L 0.172U pg/L 0.149U pg/L 0.309U pg/L 0.238U pg/L 0.163U pg/L 0.104U pg/L 0.135U pg/L 0.273U pg/L 0.213U pg/L 0.288U pg/L 0.550U pg/L 3.67U pg/L 0.319U pg/L 7.81U pg/L 0.984U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-154-SA6-SS-0.0-0.5	2,3,7,8-TCDF	0.203 ng/Kg	0.203U ng/Kg
SL-166-SA6-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	0.0963 ng/Kg 0.177 ng/Kg 0.250 ng/Kg 0.211 ng/Kg	0.0963U ng/Kg 0.177U ng/Kg 0.250U ng/Kg 0.211U ng/Kg
SL-168-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDF	0.174 ng/Kg 0.149 ng/Kg	0.174U ng/Kg 0.149U ng/Kg
SL-171-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	0.119 ng/Kg 0.231 ng/Kg 0.219 ng/Kg 0.209 ng/Kg 0.223 ng/Kg	0.119U ng/Kg 0.231U ng/Kg 0.219U ng/Kg 0.209U ng/Kg 0.223U ng/Kg
SL-172-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDD 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	0.0594 ng/Kg 0.185 ng/Kg 0.214 ng/Kg 0.203 ng/Kg	0.0594U ng/Kg 0.185U ng/Kg 0.214U ng/Kg 0.203U ng/Kg
SL-174-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 1,2,3,7,8-PeCDD 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF	0.128 ng/Kg 0.156 ng/Kg 0.108 ng/Kg 0.198 ng/Kg 0.177 ng/Kg 0.0911 ng/Kg	0.128U ng/Kg 0.156U ng/Kg 0.108U ng/Kg 0.198U ng/Kg 0.177U ng/Kg 0.0911U ng/Kg
SL-185-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDD 1,2,3,7,8,9-HxCDF	0.173 ng/Kg 0.269 ng/Kg 0.139 ng/Kg	0.173U ng/Kg 0.269U ng/Kg 0.139U ng/Kg
SL-085-SA6-SB-4.0-5.0	2,3,7,8-TCDF 1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0522 ng/Kg 0.104 ng/Kg 0.109 ng/Kg 0.0877 ng/Kg 0.0344 ng/Kg 0.0896 ng/Kg 0.105 ng/Kg 0.0532 ng/Kg 0.416 ng/Kg 1.56 ng/Kg 0.0540 ng/Kg 12.5 ng/Kg 0.696 ng/Kg	0.0522U ng/Kg 0.104U ng/Kg 0.109U ng/Kg 0.0877U ng/Kg 0.0344U ng/Kg 0.0896U ng/Kg 0.105U ng/Kg 0.0532U ng/Kg 0.416U ng/Kg 1.56U ng/Kg 0.0540U ng/Kg 12.5U ng/Kg 0.696U ng/Kg
SL-085-SA6-SB-7.0-8.0	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0269 ng/Kg 0.0379 ng/Kg 0.0539 ng/Kg 0.0622 ng/Kg 0.0214 ng/Kg 0.0280 ng/Kg 0.0264 ng/Kg 0.0477 ng/Kg 0.0253 ng/Kg 0.0703 ng/Kg 0.323 ng/Kg 0.0264 ng/Kg 1.09 ng/Kg 0.147 ng/Kg	0.0269U ng/Kg 0.0379U ng/Kg 0.0539U ng/Kg 0.0622U ng/Kg 0.0214U ng/Kg 0.0280U ng/Kg 0.0264U ng/Kg 0.0477U ng/Kg 0.0253U ng/Kg 0.0703U ng/Kg 0.323U ng/Kg 0.0264U ng/Kg 1.09U ng/Kg 0.147U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-156-SA6-SS-0.0-0.5	2,3,7,8-TCDF	0.0263 ng/Kg	0.0263U ng/Kg
	1,2,3,7,8-PeCDF	0.0282 ng/Kg	0.0282U ng/Kg
	2,3,4,7,8-PeCDF	0.101 ng/Kg	0.101U ng/Kg
	1,2,3,7,8-PeCDD	0.226 ng/Kg	0.226U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0802 ng/Kg	0.0802U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0742 ng/Kg	0.0742U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0736 ng/Kg	0.0736U ng/Kg
	1,2,3,4,7,8-HxCDD	0.259 ng/Kg	0.259U ng/Kg
	1,2,3,7,8,9-HxCDF	0.114 ng/Kg	0.114U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0613 ng/Kg	0.0613U ng/Kg
SL-157-SA6-SS-0.0-0.5	2,3,7,8-TCDF	0.0476 ng/Kg	0.0476U ng/Kg
	1,2,3,7,8-PeCDF	0.0502 ng/Kg	0.0502U ng/Kg
	2,3,4,7,8-PeCDF	0.181 ng/Kg	0.181U ng/Kg
	1,2,3,7,8-PeCDD	0.274 ng/Kg	0.274U ng/Kg
	1,2,3,6,7,8-HxCDF	0.160 ng/Kg	0.160U ng/Kg
	2,3,4,6,7,8-HxCDF	0.181 ng/Kg	0.181U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0988 ng/Kg	0.0988U ng/Kg
SL-159-SA6-SS-0.0-0.5	1,2,3,7,8-PeCDF	0.0674 ng/Kg	0.0674U ng/Kg
	2,3,4,7,8-PeCDF	0.211 ng/Kg	0.211U ng/Kg
	1,2,3,7,8-PeCDD	0.318 ng/Kg	0.318U ng/Kg
	2,3,4,6,7,8-HxCDF	0.229 ng/Kg	0.229U ng/Kg
	1,2,3,7,8,9-HxCDF	0.176 ng/Kg	0.176U ng/Kg
SL-160-SA6-SS-0.0-0.5	1,2,3,7,8-PeCDF	0.0290 ng/Kg	0.0290U ng/Kg
	2,3,4,7,8-PeCDF	0.125 ng/Kg	0.125U ng/Kg
	1,2,3,7,8-PeCDD	0.108 ng/Kg	0.108U ng/Kg
	1,2,3,6,7,8-HxCDF	0.169 ng/Kg	0.169U ng/Kg
	2,3,4,6,7,8-HxCDF	0.204 ng/Kg	0.204U ng/Kg
	1,2,3,4,7,8-HxCDD	0.276 ng/Kg	0.276U ng/Kg
	1,2,3,7,8,9-HxCDF	0.134 ng/Kg	0.134U ng/Kg

Sample EB-SA6-SS-071911 was identified as an equipment blank. No polychlorinated dioxin/dibenzofuran contaminants were found with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB-SA6-SS-071911	7/19/11	2,3,7,8-TCDF	0.0901 pg/L	SL-151-SA6-SS-0.0-0.5
		2,3,7,8-TCDD	0.172 pg/L	SL-154-SA6-SS-0.0-0.5
		1,2,3,7,8-PeCDF	0.149 pg/L	SL-166-SA6-SS-0.0-0.5
		2,3,4,7,8-PeCDF	0.309 pg/L	SL-168-SA6-SS-0.0-0.5
		1,2,3,4,7,8-HxCDF	0.238 pg/L	SL-169-SA6-SS-0.0-0.5
		1,2,3,6,7,8-HxCDF	0.163 pg/L	SL-171-SA6-SS-0.0-0.5
		2,3,4,6,7,8-HxCDF	0.104 pg/L	SL-172-SA6-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.135 pg/L	SL-174-SA6-SS-0.0-0.5
		1,2,3,6,7,8-HxCDD	0.273 pg/L	SL-178-SA6-SS-0.0-0.5
		1,2,3,7,8,9-HxCDD	0.213 pg/L	SL-185-SA6-SS-0.0-0.5
		1,2,3,7,8,9-HxCDF	0.288 pg/L	SL-301-SA6-SS-0.0-0.5
		1,2,3,4,6,7,8-HpCDF	0.550 pg/L	SL-084-SA6-SB-4.0-5.0
		1,2,3,4,6,7,8-HpCDD	3.67 pg/L	SL-084-SA6-SB-9.0-10.0
		1,2,3,4,7,8,9-HpCDF	0.319 pg/L	SL-085-SA6-SB-4.0-5.0
		OCDD	7.81 pg/L	SL-085-SA6-SB-7.0-8.0
		OCDF	0.984 pg/L	

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

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Laboratory Control Samples (LCS)

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

VIII. Regional Quality Assurance and Quality Control

Not applicable.

IX. Internal Standards

All internal standard recoveries were within QC limits.

X. Target Compound Identifications

All target compound identifications were within validation criteria.

XI. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
SL-169-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HpCDD OCDD	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects) J (all detects)	P
SL-084-SA6-SB-4.0-5.0	OCDD	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects) J (all detects)	P

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DX115	All compounds reported below the RL.	J (all detects)	A

XII. System Performance

The system performance was acceptable.

XIII. Overall Assessment of Data

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

XIV. Field Duplicates

Samples SL-160-SA6-SS-0.0-0.5 and DUP04-SA6-QC-072011 (from SDG DX116) were identified as field duplicates. No polychlorinated dioxins/dibenzofurans were detected in any of the samples with the following exceptions:

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	SL-160-SA6-SS-0.0-0.5	DUP04-SA6-QC-072011			
1,2,3,4,6,7,8-HpCDD	20.2	25.9	25 (≤50)	-	-
1,2,3,4,6,7,8-HpCDF	3.12	4.0	25 (≤50)	-	-
1,2,3,4,7,8,9-HpCDF	0.332	0.34	2 (≤50)	-	-
1,2,3,4,7,8-HxCDD	0.276	0.636	27 (≤50)	-	-
1,2,3,4,7,8-HxCDF	0.246	0.318	26 (≤50)	-	-
1,2,3,6,7,8-HxCDD	0.594	0.799	29 (≤50)	-	-
1,2,3,6,7,8-HxCDF	0.169	0.184	8 (≤50)	-	-
1,2,3,7,8,9-HxCDD	0.472	0.68	36 (≤50)	-	-
1,2,3,7,8,9-HxCDF	0.134	0.186	32 (≤50)	-	-
2,3,4,6,7,8-HxCDF	0.204	0.212	4 (≤50)	-	-
2,3,4,7,8-PeCDF	0.125	0.127	2 (≤50)	-	-
2,3,7,8-TCDD	0.0392	0.0509	26 (≤50)	-	-
OCDD	302	436	36 (≤50)	-	-
OCDF	6.53	8.28	24 (≤50)	-	-
1,2,3,7,8-PeCDD	0.108	0.193	56 (≤50)	J (all detects)	A

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	SL-160-SA6-SS-0.0-0.5	DUP04-SA6-QC-072011			
1,2,3,7,8-PeCDF	0.0290	0.703	83 (≤50)	J (all detects)	A
2,3,7,8-TCDF	0.992U	0.042	200 (≤50)	J (all detects) UJ (all non-detects)	A

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Data Qualification Summary - SDG DX115

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DX115	SL-169-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HpCDD OCDD	J (all detects) J (all detects)	P	Compound quantitation and RLs (*XI)
DX115	SL-084-SA6-SB-4.0-5.0	OCDD	J (all detects)	P	Compound quantitation and RLs (*XI)
DX115	SL-151-SA6-SS-0.0-0.5 SL-154-SA6-SS-0.0-0.5 SL-166-SA6-SS-0.0-0.5 SL-168-SA6-SS-0.0-0.5 SL-169-SA6-SS-0.0-0.5 SL-171-SA6-SS-0.0-0.5 SL-172-SA6-SS-0.0-0.5 SL-174-SA6-SS-0.0-0.5 SL-178-SA6-SS-0.0-0.5 SL-185-SA6-SS-0.0-0.5 SL-301-SA6-SS-0.0-0.5 SL-084-SA6-SB-4.0-5.0 SL-084-SA6-SB-9.0-10.0 SL-085-SA6-SB-4.0-5.0 SL-085-SA6-SB-7.0-8.0 EB-SA6-SS-071911 SL-156-SA6-SS-0.0-0.5 SL-157-SA6-SS-0.0-0.5 SL-159-SA6-SS-0.0-0.5 SL-160-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)
DX115	SL-160-SA6-SS-0.0-0.5	1,2,3,7,8-PeCDD 1,2,3,7,8-PeCDF	J (all detects) J (all detects)	A	Field duplicates (RPD) (FD)
DX115	SL-160-SA6-SS-0.0-0.5	2,3,7,8-TCDF	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Laboratory Blank Data Qualification Summary - SDG DX115

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX115	EB-SA6-SS-071911	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0901U pg/L 0.172U pg/L 0.149U pg/L 0.309U pg/L 0.238U pg/L 0.163U pg/L 0.104U pg/L 0.135U pg/L 0.273U pg/L 0.213U pg/L 0.288U pg/L 0.550U pg/L 3.67U pg/L 0.319U pg/L 7.81U pg/L 0.984U pg/L	A	B
DX115	SL-154-SA6-SS-0.0-0.5	2,3,7,8-TCDF	0.203U ng/Kg	A	B
DX115	SL-166-SA6-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	0.0963U ng/Kg 0.177U ng/Kg 0.250U ng/Kg 0.211U ng/Kg	A	B
DX115	SL-168-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDF	0.174U ng/Kg 0.149U ng/Kg	A	B
DX115	SL-171-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	0.119U ng/Kg 0.231U ng/Kg 0.219U ng/Kg 0.209U ng/Kg 0.223U ng/Kg	A	B
DX115	SL-172-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDD 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	0.0594U ng/Kg 0.185U ng/Kg 0.214U ng/Kg 0.203U ng/Kg	A	B
DX115	SL-174-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 1,2,3,7,8-PeCDD 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF	0.128U ng/Kg 0.156U ng/Kg 0.108U ng/Kg 0.198U ng/Kg 0.177U ng/Kg 0.0911U ng/Kg	A	B
DX115	SL-185-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDD 1,2,3,7,8,9-HxCDF	0.173U ng/Kg 0.269U ng/Kg 0.139U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX115	SL-085-SA6-SB-4.0-5.0	2,3,7,8-TCDF 1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0522U ng/Kg 0.104U ng/Kg 0.109U ng/Kg 0.0877U ng/Kg 0.0344U ng/Kg 0.0896U ng/Kg 0.105U ng/Kg 0.0532U ng/Kg 0.416U ng/Kg 1.56U ng/Kg 0.0540U ng/Kg 12.5U ng/Kg 0.696U ng/Kg	A	B
DX115	SL-085-SA6-SB-7.0-8.0	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0269U ng/Kg 0.0379U ng/Kg 0.0539U ng/Kg 0.0622U ng/Kg 0.0214U ng/Kg 0.0280U ng/Kg 0.0264U ng/Kg 0.0477U ng/Kg 0.0253U ng/Kg 0.0703U ng/Kg 0.323U ng/Kg 0.0264U ng/Kg 1.09U ng/Kg 0.147U ng/Kg	A	B
DX115	SL-156-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	0.0263U ng/Kg 0.0282U ng/Kg 0.101U ng/Kg 0.226U ng/Kg 0.0802U ng/Kg 0.0742U ng/Kg 0.0736U ng/Kg 0.259U ng/Kg 0.114U ng/Kg 0.0613U ng/Kg	A	B
DX115	SL-157-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	0.0476U ng/Kg 0.0502U ng/Kg 0.181U ng/Kg 0.274U ng/Kg 0.160U ng/Kg 0.181U ng/Kg 0.0988U ng/Kg	A	B
DX115	SL-159-SA6-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	0.0674U ng/Kg 0.211U ng/Kg 0.318U ng/Kg 0.229U ng/Kg 0.176U ng/Kg	A	B
DX115	SL-160-SA6-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF	0.0290U ng/Kg 0.125U ng/Kg 0.108U ng/Kg 0.169U ng/Kg 0.204U ng/Kg 0.276U ng/Kg 0.134U ng/Kg	A	B

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Field Blank Data Qualification Summary - SDG DX115

No Sample Data Qualified in this SDG

LDC #: 26392E21 (E)

VALIDATION COMPLETENESS WORKSHEET

Level IV

Date: 10/19/11
Page: 1 of 1
Reviewer: F
2nd Reviewer: C

SDG #: DX115
Laboratory: Lancaster Laboratories

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/19 - 7/20/11
II.	HRGC/HRMS Instrument performance check	A	
III.	Initial calibration	A	% RSD ≤ 20/35
IV.	Routine calibration/~~rev~~	A	qc limit
V.	Blanks	SW	
VI.	Matrix spike/Matrix spike duplicates	SWA	
VII.	Laboratory control samples	A	LCS OPR
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	A	qc limit
X.	Target compound identifications	A	
XI.	Compound quantitation and CRQLs	SW	
XII.	System performance	A	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	~~N~~SW	DUP04-SA6-QC-072011 from SDG DX116 5 #20
XV.	Field blanks	SW	EB = 16

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 & W

1	SL-151-SA6-SS-0.0-0.5	11	SL-301-SA6-SS-0.0-0.5	21	SL-160-SA6-SS-0.0-0.5MS	31	Blank 21000
2	SL-154-SA6-SS-0.0-0.5	12	SL-084-SA6-SB-4.0-5.0	22	SL-160-SA6-SS-0.0-0.5MSD	32	Blank 22400
3	SL-166-SA6-SS-0.0-0.5	13	SL-084-SA6-SB-9.0-10.0	23		33	
4	SL-168-SA6-SS-0.0-0.5	14	SL-085-SA6-SB-4.0-5.0	24		34	
5	SL-169-SA6-SS-0.0-0.5	15	SL-085-SA6-SB-7.0-8.0	25		35	
6	SL-171-SA6-SS-0.0-0.5	16	EB-SA6-SS-071911 W	26		36	
7	SL-172-SA6-SS-0.0-0.5	17	SL-156-SA6-SS-0.0-0.5	27		37	
8	SL-174-SA6-SS-0.0-0.5	18	SL-157-SA6-SS-0.0-0.5	28		38	
9	SL-178-SA6-SS-0.0-0.5	19	SL-159-SA6-SS-0.0-0.5	29		39	
10	SL-185-SA6-SS-0.0-0.5	20	SL-160-SA6-SS-0.0-0.5	30		40	

Notes:

LDC #: 26392E21

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

Method: Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS Instrument performance check				
Was PFK exact mass 380.9760 verified?	✓			
Were the retention time windows established for all homologues?	✓			
Was the chromatographic resolution between 2,3,7,8-TCDD and peaks representing any other unlabeled TCDD isomers < 25% ?	✓			
Is the static resolving power at least 10,000 (10% valley definition)?	✓			
Was the mass resolution adequately check with PFK?	✓			
Was the presence of 1,2,8,9-TCDD and 1,3,4,6,8-PeCDF verified?	✓			
III. Initial calibration				
Was the initial calibration performed at 5 concentration levels?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20% for unlabeled compounds and ≤ 35% for labeled compounds ?	✓			
Did all calibration standards meet the Ion Abundance Ratio criteria?	✓			
Was the signal to noise ratio for each target compound ≥ 2.5 and for each recovery and internal standard ≥ 10?	✓			
IV. Continuing calibration				
Was a routine calibration performed at the beginning and end of each 12 hour period?	✓			
Were all the concentrations for the unlabeled compounds and labeled compounds within the QC limits (Method 1613B, Table 6)?	✓			
Did all routine calibration standards meet the Ion Abundance Ratio criteria?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank performed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet?	✓			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			

LDC #: 26392E21

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer:

Validation Area	Yes	No	NA	Findings/Comments
VIII. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
IX. Internal standards				
Were internal standard recoveries within the 25-150% criteria?	✓			
Was the minimum S/N ratio of all internal standard peaks ≥ 10?	✓			
X. Target compound identification				
For 2,3,7,8 substituted congeners with associated labeled standards, were the retention times of the two quantitation peaks within -1 to 3 sec. of the RT of the labeled standard?	✓			
For 2,3,7,8 substituted congeners without associated labeled standards, were the relative retention times of the two quantitation peaks within 0.005 time units of the RRT measured in the routine calibration?	✓			
For non-2,3,7,8 substituted congeners, were the retention times of the two quantitation peaks within RT established in the performance check solution?	✓			
Did compound spectra contain all characteristic ions listed in the table attached?	✓			
Was the Ion Abundance Ratio for the two quantitation ions within criteria?	✓			
Was the signal to noise ratio for each target compound and labeled standard ≥ 2.5?	✓			
Does the maximum intensity of each specified characteristic ion coincide within ± 2 seconds (includes labeled standards)?	✓			
For PCDF identification, was any signal (S/N ≥ 2.5, at ± seconds RT) detected in the corresponding PCDPE channel?	✓			
Was an acceptable lock mass recorded and monitored?	✓			
XI. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
XV. Field blanks				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

A. 2,3,7,8-TCDD	F. 1,2,3,4,6,7,8-HpCDD	K. 1,2,3,4,7,8-HxCDF	P. 1,2,3,4,7,8,9-HpCDF	U. Total HpCDD
B. 1,2,3,7,8-PeCDD	G. OCDD	L. 1,2,3,6,7,8-HxCDF	Q. OCDF	V. Total TCDF
C. 1,2,3,4,7,8-HxCDD	H. 2,3,7,8-TCDF	M. 2,3,4,6,7,8-HxCDF	R. Total TCDD	W. Total PeCDF
D. 1,2,3,6,7,8-HxCDD	I. 1,2,3,7,8-PeCDF	N. 1,2,3,7,8,9-HxCDF	S. Total PeCDD	X. Total HxCDF
E. 1,2,3,7,8,9-HxCDD	J. 2,3,4,7,8-PeCDF	O. 1,2,3,4,6,7,8-HpCDF	T. Total HxCDD	Y. Total HpCDF

Notes:

LDC #: ~~26250S21~~ 26392E21

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: EF
2nd Reviewer: A

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

N N/A Were all samples associated with a method blank?

Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed? *EMPC

Y N N/A Was the method blank contaminated?

(B)

Blank extraction date: 8/12/11 **Blank analysis date:** 8/16/11 **Associated samples:** ALL WATER

Conc. units: ~~ng/Kg~~ pg/L

Compound	Blank ID	Sample Identification								
	BLK224001	5X		16						
H	0.139	0.695		0.0901*U						
A	0.457*	2.285		0.172*U						
I	0.280*	1.4		0.149U						
J	0.450*	2.25		0.309U						
B	0.437*	2.185								
K	0.405	2.025		0.238*U						
L	0.218*	1.09		0.163*U						
M	0.268	1.34		0.104U						
C	0.200*	1		0.135*U						
D	0.373*	1.865		0.273*U						
E	0.458	2.29		0.213*U						
N	0.595*	2.975		0.288*U						
O	0.817*	4.085		0.550*U						
F	3.99	19.95		3.67U						
P	0.551*	2.755		0.319*U						
G	8.97	44.85		7.81U						
Q	1.57*	7.85		0.984U						

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC #: ~~26250S21~~ 26392E2/

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: PD
2nd Reviewer: C

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

Y N N/A Were all samples associated with a method blank?
Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed? *EMPC
Y N N/A Was the method blank contaminated?

(B)

Blank extraction date: 8/12/11 **Blank analysis date:** 8/16/11 **Associated samples:** ALL SOIL

Conc. units: ng/Kg

Compound	Blank ID	Sample Identification								
	BLK210001	5X	2	3	4	6	7	8	10	14
H	0.0475*	0.2375	0.203*U		0.174*U	0.119*U	0.0594*U	0.128*U	0.173U	0.0522*U
A		0								
I	0.0473*	0.2365		0.0963*U	0.149*U	0.231U		0.156U		
J	0.0459	0.2295		0.177U						
B	0.0724*	0.362					0.185*U	0.108U	0.269U	0.104*U
K	0.0448*	0.224				0.219*U				
L	0.0341*	0.1705								0.109*U
M	0.0534	0.267		0.250*U		0.209U	0.214U	0.198U		0.0877*U
C	0.0831*	0.4155						0.177*U		0.0344*U
D	0.0751	0.3755								0.0896U
E	0.0786*	0.393								0.105*U
N	0.0484*	0.242		0.211*U		0.223*U	0.203U	0.0911U	0.139U	0.0532*U
O	0.0960*	0.48								0.416U
F	1.10	5.5								1.56U
P	0.0192	0.096								0.0540*U
G	6.35	31.75								12.5U
Q	0.174*	0.87								0.696U

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC #: ~~26250S21~~ 26392E21

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: F7
2nd Reviewer: C

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

Y N N/A Were all samples associated with a method blank?

Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed? *EMPC

Y N N/A Was the method blank contaminated?

(B)

Blank extraction date: 8/12/11 **Blank analysis date:** 8/16/11 **Associated samples:** ALL SOIL

Conc. units: ng/Kg

Compound	Blank ID	Sample Identification								
	BLK210001	5X	15	17	18	19	20			
H	0.0475*	0.2375	0.0269*U	0.0263*U	0.0476*					
I	0.0473*	0.2365	0.0379*U	0.0282*U	0.0502*	0.0674*U	0.0290*			
J	0.0459	0.2295	0.0539U	0.101*U	0.181	0.211*U	0.125*			
B	0.0724*	0.362		0.226*U	0.274	0.318*U	0.108*			
K	0.0448*	0.224	0.0622U	0.0802*U						
L	0.0341*	0.1705	0.0214*U	0.0742*U	0.160		0.169			
M	0.0534	0.267	0.0280*U	0.0736U	0.181	0.229U	0.204*			
C	0.0831*	0.4155	0.0264*U	0.259U			0.276			
D	0.0751	0.3755	0.0477U							
E	0.0786*	0.393	0.0253*U							
N	0.0484*	0.242		0.114*U	0.0988	0.176*U	0.134*			
O	0.0960*	0.48	0.0703U							
F	1.10	5.5	0.323U							
P	0.0192	0.096	0.0264*U	0.0613U						
G	6.35	31.75	1.09U							
Q	0.174*	0.87	0.147U							

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC #: 26392E21

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: FJ
2nd Reviewer: A

METHOD: GC/MS Dioxins/Dibenzofurans (Method 1613B)

Y N N/A Were field blanks identified in this SDG? * empc

Blank units: pg/L **Associated sample units:** ng/Kg
Sampling date: 7/19/11
Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: 1-15 75%

Compound	Blank ID	Sample Identification								
	16									
H	0.0901*									
A	0.172*									
I	0.149									
J	0.309									
K	0.238*									
L	0.163*									
M	0.104									
C	0.135*									
D	0.273*									
E	0.213*									
N	0.288*									
O	0.550*									
F	3.67									
P	0.319*									
G	7.81									
Q	0.984									

LDC #: 26392E2/

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

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

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290)

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

Y N N/A Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?
Y N N/A Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	~~Sample ID~~ compd	Finding	Associated Samples	Qualifications
		F, G	x'd cal Range	5	J/Adet * XJ
		G	↓	12	↓ ↓

Comments: See sample calculation verification worksheet for recalculations

LDC #: 26392B21
SDG #: DX115

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: [illegible]
2nd reviewer: A

METHOD: GC/MS Dioxins/Dibenzofurans (Method 1613B)

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

Compound	Concentration (ng/kg)		RPD (≤ 50)
	20	DUP04-SA6-QC-072011	
F	20.2	25.9	25
O	3.12	4.0	25
P	0.332	0.34	2
C	0.276	0.363	27
K	0.246	0.318	26

Compound	Concentration ( )		RPD
	cmt.		
D	0.594	0.799	29
~~M~~ L	0.169	0.184	8
E	0.472	0.68	36
N	0.134	0.186	32
M	0.204	0.212	4

Compound	Concentration ( )		RPD
	cmt.		
J	0.125	0.127	2
A	0.0392	0.0509	26
G	302	436	36
Q	6.53	8.28	24
B	0.108	0.193	56 J/A/(FD)

Compound	Concentration ( )		RPD
	cmt.		
I	0.0290	0.703	83 J/A (FD)
H	0.992 U	0.042	200 J/UJ/A (FD)

LDC #: 26392 E21

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT
2nd Reviewer: A

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$ — A_x = Area of compound, A_{is} = Area of associated internal standard
average RRF = sum of the RRFs/number of standards — C_x = Concentration of compound, C_{is} = Concentration of internal standard
$\%RSD = 100 * (S/X)$ — S = Standard deviation of the RRFs, X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported RRF (CS3 std)	Recalculated RRF (CS3 std)	Reported %RSD	Recalculated %RSD
1	ICAL	6/3/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.017	1.017	1.033	1.033	4.59	4.59
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.186	1.186	1.186	1.186	5.56	5.56
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.995	0.995	1.001	1.001	3.43	3.43
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.077	1.077	1.101	1.01	4.02	4.02
			OCDF (^{13}C-OCDF)	0.945	0.945	0.974	0.974	3.54	3.54
2	ICAL	6/24/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.028	1.028	1.022	1.022	7.77	7.77
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.142	1.142	1.133	1.133	3.52	3.52
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	1.018	1.018	0.971	0.971	4.32	4.32
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.087	1.087	1.053	1.053	4.49	4.49
			OCDF (^{13}C-OCDF)	1.001	1.001	0.950	0.950	5.01	5.01
3	ICAL	6/23/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.012	1.012	1.006	1.006	3.65	3.61
	(SP2331)		2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)						
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)						
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)						
			OCDF (^{13}C-OCDF)						

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

LDC #: 26392E2/

VALIDATION FINDINGS WORKSHEET
Routine Calibration Results Verification

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

1613B

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method ~~8290~~)

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

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Amt ~~Average RRF~~ (initial)	Reported ~~Amt RRF~~ (CC)	Recalculated ~~Amt RRF~~ (CC)	Reported %R ~~%D~~	Recalculated %R ~~%D~~
1	CCV 13:34	8/2/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	9.950	9.950	100	100
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	10-350	10.350	104	104
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	52-170	52.170	104	104
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	51.230	51.230	102	102
			OCDF (^{13}C-OCDD)	100.0	102.310	102-310	102	102
2	CCV 04:29 (SP2331)	8/6/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10	8.650	8.650	87	87
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)					
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)					
			1,2,3,4,6,7,8-HpCDD (^{13}C-1;2,4,6,7,8,-HpCDD)					
			OCDF (^{13}C-OCDD)					
3			2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)					
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)					
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)					
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)					
			OCDF (^{13}C-OCDD)					

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

LDC #: 26392E21

VALIDATION FINDINGS WORKSHEET
Routine Calibration Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Amt Average RRF (initial)	Reported RRF Amt (CC)	Recalculated RRF (CC)	Reported %R	Recalculated %R
1	CCV	8/16/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	9.740	9.740	97	97
	10:16		2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	9.180	9.180	92	92
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	50.360	50.360	101	101
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	50.180	50.180	100	100
			OCDF (^{13}C-OCDF)	100.0	107.420	107.420	107	107
2	CCV	8/01/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	9.760	9.760	98	98
	12:12		2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	10.300	10.300	103	103
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	49.590	49.59	99	99
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	48.690	48.69	97	97
			OCDF (^{13}C-OCDF)	100.0	94.250	94.250	94	94
3	CCV 0041	8/2/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	9.850	9.850	99	99
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	10.240	10.240	102	102
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	50.210	50.210	100	100
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	48.870	48.870	98	98
			OCDF (^{13}C-OCDF)	100.00	94.770	94.770	95	95

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

LDC #: 26392E2/

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

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

% Recovery = 100 * (SSR - SR)/SA Where: SSR = Spiked sample result, SR = Sample result
SA = Spike added

RPD = | MSR - MSDR | * 2/(MSR + MSDR) MSR = Matrix spike percent recovery MSDR = Matrix spike duplicate percent recovery

MS/MSD samples: 21422

Compound	Spike Added (ng/kg)		Sample Concentration (ng/kg)	Spiked Sample Concentration (ng/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		Reported RPD	Recalculated RPD
	MS	MSD	------	MS	MSD	Reported	Recalc	Reported	Recalc	----	----
2,3,7,8-TCDD	19.7	19.7	0.0392	18.0	16.1	91	91	82	82	11	11
1,2,3,7,8-PeCDD	98.5	98.5	0.108	91.3	81.3	93	93	82	82	12	12
1,2,3,4,7,8-HxCDD	↓	↓	0.276	90.3	82.6	91	91	84	84	9	9
1,2,3,4,7,8,9-HpCDF	↓	↓	0.332	85.9	79.9	87	87	81	81	7	7
OCDF	197	197	6.53	176	162	86	86	79	79	9	9

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

LDC #: 26392 E2/

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

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

METHOD: GC/MS Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

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

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration
SA = Spike added

RPD = | LCS - LCSD | * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: OPR21001

Compound	Spike Added (ng/kg)		Spiked Sample Concentration (ng/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
2,3,7,8-TCDD	20.0	NA	18.4	NA	92	92				
1,2,3,7,8-PeCDD	100		96.6		97	97				
1,2,3,4,7,8-HxCDD	100		93.9		94	94				
1,2,3,4,7,8,9-HpCDF	100		87.0		87	87				
OCDF	200		170		85	85	NA			

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

Descriptor	Accurate mass[a]	Ion ID	Elemental Composition	Analyte	Descriptor	Accurate Mass[a]	Ion ID	Elemental Composition	Analyte
1	303.9016 305.8987 315.9419 317.9389 319.8965 321.8936 331.9368 333.9338 375.8364 [354.9792]	M M+2 M M+2 M M+2 M M+2 M+2 LOCK	$C_{12}H_4{}^{35}Cl_4O$ $C_{12}H_4{}^{35}Cl_3{}^{37}C10$ $^{13}C_{12}H_4{}^{35}Cl_4O$ $^{13}C_{12}H_4{}^{35}Cl_3{}^{37}ClO$ $C_{12}H_4{}^{35}Cl_4O_2$ $C_{12}H_4{}^{35}Cl_3{}^{37}C10_2$ $^{13}C_{12}H_4{}^{35}Cl_4O_2$ $^{13}C_{12}H_4{}^{35}Cl_3{}^{37}ClO_2$ $C_{12}H_4{}^{35}Cl_5{}^{37}ClO$ C_9F_{13}	TCDF TCDF TCDF (S) TCDF (S) TCDD TCDD TCDD (S) TCDD (S) HxCDPE PFK	4	407.7818 409.7788 417.8250 419.8220 423.7767 425.7737 435.8169 437.8140 479.7165 [430.9728]	M+2 M+4 M M+2 M+2 M+4 M+2 M+4 M+4 LOCK	$C_{12}H^{35}Cl_6{}^{37}ClO$ $C_{12}H^{35}Cl_5{}^{37}Cl_2O$ $^{13}C_{12}H^{35}Cl_7O$ $^{13}C_{12}H^{35}Cl_6{}^{37}ClO$ $C_{12}H^{35}Cl_5{}^{37}ClO_2$ $C_{12}H^{35}Cl_5{}^{37}Cl_2O_2$ $^{13}C_{12}H^{35}Cl_6{}^{37}ClO_2$ $^{13}C_{12}H^{35}Cl_5{}^{37}Cl_2O_2$ $C_{12}H^{35}Cl_7{}^{37}Cl_2O$ C_9F_{17}	HpCDF HpCDF HpCDF (S) HpCDF HpCDD HpCDD HpCDD (S) HpCDD (S) NCDPE PFK
2	339.8597 341.8567 351.9000 353.8970 355.8546 357.8516 367.8949 369.8919 409.7974 [354.9792]	M+2 M+4 M+2 M+4 M+2 M+4 M+2 M+4 M+2 LOCK	$C_{12}H_3{}^{35}Cl_4{}^{37}ClO$ $C_{12}H_3{}^{35}Cl_3{}^{37}Cl_2O$ $^{13}C_{12}H_3{}^{35}Cl_4{}^{37}C10$ $^{13}C_{12}H_3{}^{35}Cl_3{}^{37}Cl_2O$ $C_{12}H_3{}^{35}Cl_4{}^{37}ClO_2$ $C_{12}H_3{}^{35}Cl_3{}^{37}Cl_2O_2$ $^{13}C_{12}H_3{}^{35}Cl_4{}^{37}ClO_2$ $^{13}C_{12}H_3{}^{35}Cl_3{}^{37}Cl_2O_2$ $C_{12}H_3{}^{35}Cl_8{}^{37}ClO$ C_9F_{13}	PeCDF PeCDF PeCDF (S) PeCDF (S) PeCDD PeCDD PeCDD (S) PeCDD (S) HpCDPE PFK	5	441.7428 443.7399 457.7377 459.7348 469.7780 471.7750 513.6775 [422.9278]	M+2 M+4 M+2 M+4 M+2 M+4 M+4 LOCK	$C_{12}{}^{35}Cl_7{}^{37}ClO$ $C_{12}{}^{35}Cl_6{}^{37}Cl_2O$ $C_{12}{}^{35}Cl_7{}^{37}ClO_2$ $C_{12}{}^{35}Cl_6{}^{37}Cl_2O_2$ $^{13}C_{12}{}^{35}Cl_7{}^{37}ClO_2$ $^{13}C_{12}{}^{35}Cl_6{}^{37}Cl_2O_2$ $C_{12}{}^{35}Cl_8{}^{37}Cl_2O$ $C_{10}F_{17}$	OCDF OCDF OCDD OCDD OCDD (S) OCDD (S) DCDPE PFK
3	373.8208 375.8178 383.8639 385.8610 389.8156 391.8127 401.8559 403.8529 445.7555 [430.9728]	M+2 M+4 M M+2 M+2 M+4 M+2 M+4 M+4 LOCK	$C_{12}H_2{}^{35}Cl_5{}^{37}ClO$ $C_{12}H_2{}^{35}Cl_4{}^{37}Cl_2O$ $^{13}C_{12}H_2{}^{35}Cl_6O$ $^{13}C_{12}H_2{}^{35}Cl_5{}^{37}ClO$ $C_{12}H_2{}^{35}Cl_5{}^{37}ClO_2$ $C_{12}H_2{}^{35}Cl_4{}^{37}Cl_2O_2$ $^{13}C_{12}H_2{}^{35}Cl_5{}^{37}ClO_2$ $^{13}C_{12}H_2{}^{35}Cl_4{}^{37}Cl_2O_2$ $C_{12}H_2{}^{35}Cl_6{}^{37}Cl_2O$ C_9F_{17}	HxCDF HxCDF HxCDF (S) HxCDF (S) HxCDD HxCDD HxCDD (S) HxCDD (S) OCDPE PFK					

(a) The following nuclidic masses were used:

H = 1.007825	O = 15.994915
C = 12.000000	^{35}Cl = 34.968853
^{13}C = 13.003355	^{37}Cl = 36.965903
F = 18.9984	

S = Internal/recovery standard

LDC #: 26392E2/

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

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

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

RRF = Relative Response Factor (average) from the initial calibration

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

Example:

Sample I.D. #1, OCDD:

Conc. = $\frac{(184037 + 207490)(4000)(\quad)}{(775041)(1.041)(10.2)(0.99)}$
$688 + 918$

=

1017 ng/kg

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification
	#5 2378 TCDF				
	(SP2331)				
	=	(17604+13024)(2000)		= 2.83 ng/kg	
		(1170767+932631)(1.006)(10.3)(0.99)			

LDC #:
SDG #:

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification (additional page)

Page: of
Reviewer:

SAMPLE DELIVERY GROUP

DX116

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Jul-2011	SL-167-SA6-SS-0.0-0.5	6351947	N	METHOD	1613B	III
20-Jul-2011	DUP04-SA6-QC-072011	6351954	FD	METHOD	1613B	III
20-Jul-2011	SL-164-SA6-SS-0.0-0.5	6351945	N	METHOD	1613B	III
20-Jul-2011	SL-162-SA6-SS-0.0-0.5	6351944	N	METHOD	1613B	III
20-Jul-2011	SL-321-SA6-SS-0.0-0.5	6351952	N	METHOD	1613B	III
20-Jul-2011	SL-165-SA6-SS-0.0-0.5	6351946	N	METHOD	1613B	III
20-Jul-2011	SL-322-SA6-SS-0.0-0.5	6351953	N	METHOD	1613B	III
20-Jul-2011	EB-SA6-SB-072011	6351958	EB	METHOD	1613B	III
20-Jul-2011	SL-218-SA6-SS-0.0-0.5	6351949	N	METHOD	1613B	III
20-Jul-2011	SL-220-SA6-SS-0.0-0.5	6351950	N	METHOD	1613B	III
20-Jul-2011	SL-215-SA6-SS-0.0-0.5	6351948	N	METHOD	1613B	III
20-Jul-2011	SL-310-SA6-SS-0.0-0.5	6351951	N	METHOD	1613B	III
20-Jul-2011	SL-097-SA6-SB-1.5-2.5	6351957	N	METHOD	1613B	III
20-Jul-2011	SL-086-SA6-SB-4.0-5.0	6351955	N	METHOD	1613B	III
20-Jul-2011	SL-086-SA6-SB-9.0-10.0	6351956	N	METHOD	1613B	III
21-Jul-2011	SL-214-SA6-SS-0.0-0.5	6353214	N	METHOD	1613B	III
21-Jul-2011	SL-219-SA6-SS-0.0-0.5	6353216	N	METHOD	1613B	III
21-Jul-2011	SL-216-SA6-SS-0.0-0.5	6353215	N	METHOD	1613B	III
21-Jul-2011	SL-211-SA6-SS-0.0-0.5	6353211	N	METHOD	1613B	III
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MS	6353212	MS	METHOD	1613B	III
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MSD	6353213	MSD	METHOD	1613B	III
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MSD	P353211M371630	MSD	METHOD	1613B	III
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MS	P353211R371533	MS	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX116 Laboratory: LL

EDD Filename: DX116_v1. eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** AQ

Sample ID: EB-SA6-SB-072011 *Collected:* 7/20/2011 12:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.26	JB	0.111	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.605	JB	0.0527	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.386	JBQ	0.0644	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.134	JBQ	0.0888	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.200	JBQ	0.0459	MDL	10.6	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.243	JB	0.0948	MDL	10.6	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.180	JB	0.0456	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.395	JB	0.0916	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.330	JB	0.0374	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.106	JBQ	0.0888	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.108	JBQ	0.0528	MDL	10.6	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.165	JBQ	0.0430	MDL	10.6	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.433	JBQ	0.0459	MDL	10.6	PQL	pg/L	U	B
2,3,7,8-TCDD	0.173	JB	0.0937	MDL	2.12	PQL	pg/L	U	B
OCDD	9.53	JB	0.121	MDL	21.2	PQL	pg/L	U	B
OCDF	0.986	JB	0.131	MDL	21.2	PQL	pg/L	U	B

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: DUP04-SA6-QC-072011 *Collected:* 7/20/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.00	JB	0.0222	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.340	JB	0.0239	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.363	JB	0.0487	MDL	4.96	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.318	JBQ	0.0335	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.799	JB	0.0498	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.184	JB	0.0306	MDL	4.96	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.680	JB	0.0579	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.186	JB	0.0274	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.193	JB	0.0259	MDL	4.96	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.0703	JB	0.0144	MDL	4.96	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.212	JB	0.0244	MDL	4.96	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX116 **Laboratory:** LL

EDD Filename: DX116_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: DUP04-SA6-QC-072011 *Collected:* 7/20/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.127	JB	0.0146	MDL	4.96	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0509	JQ	0.0183	MDL	0.992	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0420	JBQ	0.0219	MDL	0.992	PQL	ng/Kg	UJ	B, FD
OCDF	8.28	JB	0.0298	MDL	9.92	PQL	ng/Kg	J	Z

Sample ID: SL-086-SA6-SB-4.0-5.0 *Collected:* 7/20/2011 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.54	JB	0.0294	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	1.34	JB	0.0191	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.111	JBQ	0.0216	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0415	JBQ	0.0255	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	1.50	JB	0.0478	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.187	JBQ	0.0265	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.126	JBQ	0.0439	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.103	JB	0.0236	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0801	JBQ	0.0414	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0763	JBQ	0.0195	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.205	JB	0.0268	MDL	5.29	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.207	JB	0.0367	MDL	5.29	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.197	JBQ	0.0264	MDL	5.29	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.319	JBQ	0.0228	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	29.9	B	0.0207	MDL	10.6	PQL	ng/Kg	U	B
OCDF	3.14	JB	0.0197	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-086-SA6-SB-9.0-10.0 *Collected:* 7/20/2011 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
1,2,3,4,6,7,8-HPCDD	0.260	JB	0.0217	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0598	JB	0.0107	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0191	JB	0.0119	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0176	JBQ	0.0130	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0451	JBQ	0.0164	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0196	JBQ	0.0121	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0408	JBQ	0.0141	MDL	5.34	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX116 **Laboratory:** LL

EDD Filename: DX116_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-086-SA6-SB-9.0-10.0 *Collected:* 7/20/2011 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
1,2,3,7,8,9-HXCDF	0.0354	JBQ	0.0114	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0212	JBQ	0.0187	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0283	JB	0.0131	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0243	JBQ	0.00953	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0664	JBQ	0.0127	MDL	5.34	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0323	JQ	0.0197	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	0.930	JB	0.0209	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.122	JB	0.0233	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-097-SA6-SB-1.5-2.5 *Collected:* 7/20/2011 2:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.756	JB	0.0281	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.451	JB	0.0288	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.417	JB	0.0425	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.55	JB	0.0305	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.328	JB	0.0429	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.583	JB	0.0280	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.128	JB	0.0281	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.165	JBQ	0.0220	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.190	JB	0.0178	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.490	JB	0.0255	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.297	JB	0.0177	MDL	5.05	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0589	JQ	0.0144	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.362	JB	0.0290	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-162-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 9:51:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.79	JB	0.0281	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.320	JB	0.0198	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.08	JB	0.0434	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.645	JBQ	0.0489	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.35	JB	0.0446	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.405	JB	0.0499	MDL	4.95	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX116 **Laboratory:** LL

EDD Filename: DX116_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-162-SA6-SS-0.0-0.5 **Collected:** 7/20/2011 9:51:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	2.64	JB	0.0429	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.240	JB	0.0268	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.651	JB	0.0362	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.162	JBQ	0.0214	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.328	JBQ	0.0268	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.476	JB	0.0208	MDL	4.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0887	J	0.0239	MDL	0.989	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.291	JB	0.0280	MDL	0.989	PQL	ng/Kg	J	Z

Sample ID: SL-164-SA6-SS-0.0-0.5 **Collected:** 7/20/2011 8:57:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.78	JB	0.0371	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.150	JB	0.0288	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.295	JB	0.0396	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.156	JBQ	0.0339	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.759	JB	0.0408	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.207	JBQ	0.0347	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.940	JB	0.0347	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0827	JB	0.0185	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.199	JB	0.0251	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0561	JBQ	0.0138	MDL	4.92	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.133	JBQ	0.0172	MDL	4.92	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0857	JBQ	0.0129	MDL	4.92	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0449	JQ	0.0197	MDL	0.984	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0393	JBQ	0.0223	MDL	0.984	PQL	ng/Kg	U	B
OCDF	3.88	JB	0.0271	MDL	9.84	PQL	ng/Kg	J	Z

Sample ID: SL-165-SA6-SS-0.0-0.5 **Collected:** 7/20/2011 10:24:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.64	JB	0.0198	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.149	JBQ	0.0233	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.260	JBQ	0.0382	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.131	JB	0.0290	MDL	4.98	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX116 **Laboratory:** LL

EDD Filename: DX116_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-165-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 10:24:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.738	JBQ	0.0407	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.146	JBQ	0.0267	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.737	JB	0.0352	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0821	JBQ	0.0243	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.157	JBQ	0.0248	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0641	JBQ	0.0153	MDL	4.98	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.117	JBQ	0.0195	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0825	JB	0.0151	MDL	4.98	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0342	JQ	0.0265	MDL	0.996	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0919	JBQ	0.0288	MDL	0.996	PQL	ng/Kg	U	B
OCDF	3.98	JB	0.0325	MDL	9.96	PQL	ng/Kg	J	Z

Sample ID: SL-167-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 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
1,2,3,4,7,8,9-HPCDF	0.362	JB	0.0213	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.38	JB	0.0323	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.355	JB	0.0339	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.84	JB	0.0329	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.219	JBQ	0.0324	MDL	4.93	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	2.97	JB	0.0312	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.199	JBQ	0.0252	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.882	JB	0.0346	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0882	JB	0.0157	MDL	4.93	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.252	JB	0.0224	MDL	4.93	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.202	JBQ	0.0151	MDL	4.93	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.134	JQ	0.0209	MDL	0.986	PQL	ng/Kg	J	Z

Sample ID: SL-211-SA6-SS-0.0-0.5 ***Collected:*** 7/21/2011 10:23:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	351	B	0.134	MDL	4.83	PQL	ng/Kg	J	Q
1,2,3,4,7,8,9-HPCDF	4.58	JB	0.0595	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.80	JB	0.0613	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.83	JB	0.0692	MDL	4.83	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX116 Laboratory: LL

EDD Filename: DX116_v1. eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-211-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 10:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	2.16	JB	0.0657	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.993	JB	0.0660	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.63	JB	0.0640	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.49	JB	0.0534	MDL	4.83	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	2.90	JB	0.0585	MDL	4.83	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.02	JB	0.0489	MDL	4.83	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.248	J	0.0257	MDL	0.966	PQL	ng/Kg	J	Z
OCDD	5120	EB	0.0780	MDL	9.66	PQL	ng/Kg	J	*XI
OCDF	273	B	0.0346	MDL	9.66	PQL	ng/Kg	J	Q

Sample ID: SL-214-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:07:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4390	EB	0.294	MDL	4.91	PQL	ng/Kg	J	*XI
OCDD	76100	EB	0.209	MDL	9.82	PQL	ng/Kg	J	*XI
OCDF	4680	EB	0.0584	MDL	9.82	PQL	ng/Kg	J	*XI

Sample ID: SL-215-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 1:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	4.38	JB	0.110	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.92	JB	0.0711	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	3.37	JB	0.0668	MDL	5.00	PQL	ng/Kg	J	Z
OCDD	12900	EB	0.107	MDL	10.0	PQL	ng/Kg	J	*XI

Sample ID: SL-216-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	1.58	JB	0.0462	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	4.60	JB	0.0411	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.88	JB	0.0304	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.35	JB	0.0303	MDL	5.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.474	JB	0.0215	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	21100	EB	0.109	MDL	10.1	PQL	ng/Kg	J	*XI

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX116 **Laboratory: LL**

EDD Filename: DX116_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-218-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 12:38:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	4.00	JB	0.0589	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.83	JB	0.0428	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.68	JB	0.0479	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.11	JB	0.0454	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.69	JB	0.0434	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.10	JB	0.0431	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.305	JBQ	0.0356	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.656	JB	0.0410	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.337	JB	0.0222	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.13	JB	0.0301	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.570	JB	0.0230	MDL	4.98	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.103	J	0.0239	MDL	0.996	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.484	JB	0.0329	MDL	0.996	PQL	ng/Kg	J	Z

Sample ID: SL-219-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:25:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.866	J BC	0.0304	MDL	0.999	PQL	ng/Kg	J	Z

Sample ID: SL-219-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.61	JB	0.0416	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.08	JB	0.0371	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.13	JB	0.0795	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.52	JB	0.0376	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.806	JB	0.0904	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.85	JB	0.0339	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.383	JB	0.0343	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.451	JB	0.0346	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.342	JB	0.0245	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.890	JB	0.0306	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.704	JB	0.0242	MDL	5.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0721	J	0.0172	MDL	0.999	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX116 **Laboratory:** LL

EDD Filename: DX116_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-220-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 1:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3210	EB	0.230	MDL	4.97	PQL	ng/Kg	J	*XI
1,2,3,7,8,9-HXCDF	3.48	JB	0.0870	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	3.76	JB	0.0719	MDL	4.97	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.898	J	0.0338	MDL	0.994	PQL	ng/Kg	J	Z
OCDD	48200	EB	0.152	MDL	9.94	PQL	ng/Kg	J	*XI

Sample ID: SL-310-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 1:51:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	4.21	JB	0.0561	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	4.38	JB	0.0618	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.65	JB	0.116	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.48	JB	0.112	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.930	JB	0.0570	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.12	JB	0.0640	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.31	JB	0.0609	MDL	4.93	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.65	JB	0.0510	MDL	4.93	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	4.71	JB	0.0614	MDL	4.93	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.285	J	0.0249	MDL	0.985	PQL	ng/Kg	J	Z
OCDD	6990	EB	0.0992	MDL	9.85	PQL	ng/Kg	J	*XI

Sample ID: SL-321-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 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
1,2,3,4,6,7,8-HPCDF	3.50	JB	0.0274	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.299	JB	0.0265	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.320	JB	0.0436	MDL	4.93	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.276	JB	0.0356	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.669	JB	0.0451	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.147	JB	0.0348	MDL	4.93	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.487	JB	0.0400	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.208	JB	0.0250	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.131	JBQ	0.0260	MDL	4.93	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0812	JBQ	0.0127	MDL	4.93	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.183	JB	0.0244	MDL	4.93	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX116 **Laboratory: LL**

EDD Filename: DX116_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-321-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 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
2,3,4,7,8-PECDF	0.113	JB	0.0125	MDL	4.93	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0741	J	0.0182	MDL	0.987	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0483	JB	0.0176	MDL	0.987	PQL	ng/Kg	U	B
OCDF	6.42	JB	0.0297	MDL	9.87	PQL	ng/Kg	J	Z

Sample ID: SL-322-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 10:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	2.73	JB	0.0474	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.34	JB	0.0493	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.39	JB	0.0449	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.67	JB	0.0474	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.34	JB	0.0411	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.666	JB	0.0563	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.253	JB	0.0177	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.07	JB	0.0402	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.511	JB	0.0169	MDL	4.98	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.112	JQ	0.0232	MDL	0.995	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.110	JB	0.0229	MDL	0.995	PQL	ng/Kg	U	B
OCDD	4170	EB	0.0546	MDL	9.95	PQL	ng/Kg	J	*XI

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX116 **Laboratory: LL**

EDD Filename: DX116_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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
*XI	Compound Quantitation and CRQL
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

Data Qualifier Summary

Lab Reporting Batch ID: DX116 **Laboratory: LL**

EDD Filename: DX116_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

Data Qualifier Summary

Lab Reporting Batch ID: DX116 **Laboratory: LL**

EDD Filename: DX116_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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX116

Method Blank Outlier Report

Lab Reporting Batch ID: DX116 **Laboratory: LL**

EDD Filename: DX116_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2240B371404	8/16/2011 2:04:00 PM	1,2,3,4,6,7,8-HPCDD	3.99 pg/L	EB-SA6-SB-072011
		1,2,3,4,6,7,8-HPCDF	0.817 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.551 pg/L	
		1,2,3,4,7,8-HxCDD	0.200 pg/L	
		1,2,3,4,7,8-HXCDF	0.405 pg/L	
		1,2,3,6,7,8-HXCDD	0.373 pg/L	
		1,2,3,6,7,8-HXCDF	0.218 pg/L	
		1,2,3,7,8,9-HXCDD	0.458 pg/L	
		1,2,3,7,8,9-HXCDF	0.595 pg/L	
		1,2,3,7,8-PECDD	0.437 pg/L	
		1,2,3,7,8-PECDF	0.280 pg/L	
		2,3,4,6,7,8-HXCDF	0.268 pg/L	
		2,3,4,7,8-PECDF	0.450 pg/L	
		2,3,7,8-TCDD	0.457 pg/L	
		2,3,7,8-TCDF	0.139 pg/L	
		OCDD	8.97 pg/L	
		OCDF	1.57 pg/L	

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-072011(RES)	1,2,3,4,6,7,8-HPCDD	4.26 pg/L	4.26U pg/L
EB-SA6-SB-072011(RES)	1,2,3,4,6,7,8-HPCDF	0.605 pg/L	0.605U pg/L
EB-SA6-SB-072011(RES)	1,2,3,4,7,8,9-HPCDF	0.386 pg/L	0.386U pg/L
EB-SA6-SB-072011(RES)	1,2,3,4,7,8-HxCDD	0.134 pg/L	0.134U pg/L
EB-SA6-SB-072011(RES)	1,2,3,4,7,8-HXCDF	0.200 pg/L	0.200U pg/L
EB-SA6-SB-072011(RES)	1,2,3,6,7,8-HXCDD	0.243 pg/L	0.243U pg/L
EB-SA6-SB-072011(RES)	1,2,3,6,7,8-HXCDF	0.180 pg/L	0.180U pg/L
EB-SA6-SB-072011(RES)	1,2,3,7,8,9-HXCDD	0.395 pg/L	0.395U pg/L
EB-SA6-SB-072011(RES)	1,2,3,7,8,9-HXCDF	0.330 pg/L	0.330U pg/L
EB-SA6-SB-072011(RES)	1,2,3,7,8-PECDD	0.106 pg/L	0.106U pg/L
EB-SA6-SB-072011(RES)	1,2,3,7,8-PECDF	0.108 pg/L	0.108U pg/L
EB-SA6-SB-072011(RES)	2,3,4,6,7,8-HXCDF	0.165 pg/L	0.165U pg/L
EB-SA6-SB-072011(RES)	2,3,4,7,8-PECDF	0.433 pg/L	0.433U pg/L
EB-SA6-SB-072011(RES)	2,3,7,8-TCDD	0.173 pg/L	0.173U pg/L
EB-SA6-SB-072011(RES)	OCDD	9.53 pg/L	9.53U pg/L
EB-SA6-SB-072011(RES)	OCDF	0.986 pg/L	0.986U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX116 **Laboratory: LL**

EDD Filename: DX116_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2140B370347	8/9/2011 3:47:00 AM	2,3,7,8-TCDF	0.0381 ng/Kg	DUP04-SA6-QC-072011 SL-086-SA6-SB-4.0-5.0 SL-086-SA6-SB-9.0-10.0 SL-097-SA6-SB-1.5-2.5 SL-162-SA6-SS-0.0-0.5 SL-164-SA6-SS-0.0-0.5 SL-165-SA6-SS-0.0-0.5 SL-167-SA6-SS-0.0-0.5 SL-211-SA6-SS-0.0-0.5 SL-214-SA6-SS-0.0-0.5 SL-215-SA6-SS-0.0-0.5 SL-218-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5 SL-220-SA6-SS-0.0-0.5 SL-310-SA6-SS-0.0-0.5 SL-321-SA6-SS-0.0-0.5 SL-322-SA6-SS-0.0-0.5
BLK2140B372124	8/5/2011 9:24:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,8,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDF OCDD OCDF	1.14 ng/Kg 0.0913 ng/Kg 0.0388 ng/Kg 0.0896 ng/Kg 0.0447 ng/Kg 0.0673 ng/Kg 0.0467 ng/Kg 0.0880 ng/Kg 0.0283 ng/Kg 0.0337 ng/Kg 0.0262 ng/Kg 0.0193 ng/Kg 0.0827 ng/Kg 0.0364 ng/Kg 7.54 ng/Kg 0.147 ng/Kg	DUP04-SA6-QC-072011 SL-086-SA6-SB-4.0-5.0 SL-086-SA6-SB-9.0-10.0 SL-097-SA6-SB-1.5-2.5 SL-162-SA6-SS-0.0-0.5 SL-164-SA6-SS-0.0-0.5 SL-165-SA6-SS-0.0-0.5 SL-167-SA6-SS-0.0-0.5 SL-211-SA6-SS-0.0-0.5 SL-214-SA6-SS-0.0-0.5 SL-215-SA6-SS-0.0-0.5 SL-218-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5 SL-220-SA6-SS-0.0-0.5 SL-310-SA6-SS-0.0-0.5 SL-321-SA6-SS-0.0-0.5 SL-322-SA6-SS-0.0-0.5
BLK2220B372003	8/11/2011 8:03:00 PM	1,2,3,4,8,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDD OCDD OCDF	0.288 ng/Kg 0.0535 ng/Kg 0.0287 ng/Kg 0.0201 ng/Kg 0.0276 ng/Kg 0.0380 ng/Kg 0.0102 ng/Kg 0.0395 ng/Kg 0.0235 ng/Kg 0.0211 ng/Kg 0.0321 ng/Kg 0.0245 ng/Kg 0.0487 ng/Kg 0.0120 ng/Kg 0.582 ng/Kg 0.102 ng/Kg	SL-216-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
DUP04-SA6-QC-072011(RES)	1,2,3,4,7,8-HxCDD	0.363 ng/Kg	0.363U ng/Kg
DUP04-SA6-QC-072011(RES)	1,2,3,6,7,8-HXCDF	0.184 ng/Kg	0.184U ng/Kg
DUP04-SA6-QC-072011(RES)	1,2,3,7,8-PECDF	0.0703 ng/Kg	0.0703U ng/Kg
DUP04-SA6-QC-072011(RES)	2,3,4,7,8-PECDF	0.127 ng/Kg	0.127U ng/Kg
DUP04-SA6-QC-072011(RES)	2,3,7,8-TCDF	0.0420 ng/Kg	0.0420U ng/Kg
SL-086-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	3.54 ng/Kg	3.54U ng/Kg
SL-086-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.111 ng/Kg	0.111U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX116 **Laboratory: LL**

EDD Filename: DX116_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-086-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0415 ng/Kg	0.0415U ng/Kg
SL-086-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.187 ng/Kg	0.187U ng/Kg
SL-086-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-086-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.103 ng/Kg	0.103U ng/Kg
SL-086-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0801 ng/Kg	0.0801U ng/Kg
SL-086-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0763 ng/Kg	0.0763U ng/Kg
SL-086-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.197 ng/Kg	0.197U ng/Kg
SL-086-SA6-SB-4.0-5.0(RES)	OCDD	29.9 ng/Kg	29.9U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.260 ng/Kg	0.260U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0598 ng/Kg	0.0598U ng/Kg
SL-086-SA8-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0191 ng/Kg	0.0191U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0176 ng/Kg	0.0176U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0451 ng/Kg	0.0451U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0196 ng/Kg	0.0196U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0408 ng/Kg	0.0408U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0354 ng/Kg	0.0354U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0212 ng/Kg	0.0212U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0283 ng/Kg	0.0283U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0243 ng/Kg	0.0243U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0664 ng/Kg	0.0664U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	OCDD	0.930 ng/Kg	0.930U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	OCDF	0.122 ng/Kg	0.122U ng/Kg
SL-097-SA6-SB-1.5-2.5(RES)	1,2,3,7,8,9-HXCDF	0.128 ng/Kg	0.128U ng/Kg
SL-097-SA6-SB-1.5-2.5(RES)	1,2,3,7,8-PECDD	0.165 ng/Kg	0.165U ng/Kg
SL-097-SA6-SB-1.5-2.5(RES)	2,3,4,7,8-PECDF	0.297 ng/Kg	0.297U ng/Kg
SL-164-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.150 ng/Kg	0.150U ng/Kg
SL-164-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.295 ng/Kg	0.295U ng/Kg
SL-164-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.156 ng/Kg	0.156U ng/Kg
SL-164-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.207 ng/Kg	0.207U ng/Kg
SL-164-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0827 ng/Kg	0.0827U ng/Kg
SL-164-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0561 ng/Kg	0.0561U ng/Kg
SL-164-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0857 ng/Kg	0.0857U ng/Kg
SL-164-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0393 ng/Kg	0.0393U ng/Kg
SL-165-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.149 ng/Kg	0.149U ng/Kg
SL-165-SA8-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.260 ng/Kg	0.260U ng/Kg
SL-165-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.131 ng/Kg	0.131U ng/Kg
SL-165-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.146 ng/Kg	0.146U ng/Kg
SL-165-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0821 ng/Kg	0.0821U ng/Kg
SL-165-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.157 ng/Kg	0.157U ng/Kg
SL-165-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0641 ng/Kg	0.0641U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX116 **Laboratory: LL**

EDD Filename: DX116_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-165-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0825 ng/Kg	0.0825U ng/Kg
SL-165-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0919 ng/Kg	0.0919U ng/Kg
SL-167-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.219 ng/Kg	0.219U ng/Kg
SL-167-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0882 ng/Kg	0.0882U ng/Kg
SL-167-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.202 ng/Kg	0.202U ng/Kg
SL-321-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.320 ng/Kg	0.320U ng/Kg
SL-321-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.147 ng/Kg	0.147U ng/Kg
SL-321-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.131 ng/Kg	0.131U ng/Kg
SL-321-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0812 ng/Kg	0.0812U ng/Kg
SL-321-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.113 ng/Kg	0.113U ng/Kg
SL-321-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0483 ng/Kg	0.0483U ng/Kg
SL-322-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.110 ng/Kg	0.110U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX116 Laboratory: LL

EDD Filename: DX116_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-211-SA6-SS-0.0-0.5MSD (SL-211-SA6-SS-0.0-0.5)	1,2,3,4,6,7,8-HPCDD OCDF	- -	151 146	40.00-135.00 40.00-135.00	- -	1,2,3,4,6,7,8-HPCDD OCDF	J (all detects)
SL-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD (SL-211-SA6-SS-0.0-0.5)	OCDD	-445	-51	40.00-135.00	-	OCDD	No Qual, >4x

Field Duplicate RPD Report

Lab Reporting Batch ID: DX116 **Laboratory: LL**

EDD Filename: PrepDX116_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-211-SA6-SS-0.0-0.5	DUP05-SA6-QC-072111			
MOISTURE	1.1	1.300000000	17		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-211-SA6-SS-0.0-0.5	DUP05-SA6-QC-072111			
1,2,3,4,6,7,8-HPCDD	351	327.000000000	7	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	67.4	66.400000000	1	50.00	
1,2,3,4,7,8,9-HPCDF	4.58	4.960000000	8	50.00	
1,2,3,4,7,8-HxCDD	3.80	3.800000000	0	50.00	
1,2,3,4,7,8-HXCDF	3.83	4.850000000	24	50.00	
1,2,3,6,7,8-HXCDD	11.3	10.100000000	11	50.00	
1,2,3,6,7,8-HXCDF	2.16	3.170000000	38	50.00	
1,2,3,7,8,9-HXCDD	7.05	7.030000000	0	50.00	
1,2,3,7,8,9-HXCDF	0.993	0.969000000	2	50.00	
1,2,3,7,8-PECDD	1.63	1.850000000	13	50.00	
2,3,4,6,7,8-HXCDF	2.90	2.950000000	2	50.00	
2,3,4,7,8-PECDF	2.02	2.690000000	28	50.00	
2,3,7,8-TCDD	0.248	0.260000000	5	50.00	
2,3,7,8-TCDF	1.79	1.960000000	9	50.00	
OCDD	5120	3590.000000000	35	50.00	
OCDF	273	270.000000000	1	50.00	
1,2,3,7,8-PECDF	1.49	13.100000000	159	50.00	J(all detects)

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX116 **Laboratory: LL**

EDD Filename: DX116_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-072011	1,2,3,4,6,7,8-HPCDD	JB	4.26	10.6	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	0.605	10.6	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.386	10.6	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.134	10.6	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.200	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JB	0.243	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.180	10.6	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JB	0.395	10.6	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.330	10.6	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.106	10.6	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.108	10.6	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.165	10.6	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.433	10.6	PQL	pg/L	
	2,3,7,8-TCDD	JB	0.173	2.12	PQL	pg/L	
	OCDD	JB	9.53	21.2	PQL	pg/L	
	OCDF	JB	0.986	21.2	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA6-QC-072011	1,2,3,4,6,7,8-HPCDF	JB	4.00	4.96	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.340	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.363	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.318	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.799	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.184	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.680	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.186	4.96	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.193	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0703	4.96	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.212	4.96	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.127	4.96	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0509	0.992	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0420	0.992	PQL	ng/Kg	
	OCDF	JB	8.28	9.92	PQL	ng/Kg	
SL-086-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	3.54	5.29	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.34	5.29	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.111	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0415	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.50	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.187	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.126	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.103	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0801	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0763	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.205	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.207	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.197	5.29	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.319	1.06	PQL	ng/Kg	
	OCDF	JB	3.14	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX116 **Laboratory: LL**

EDD Filename: DX116_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-086-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.260	5.34	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0598	5.34	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0191	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0176	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0451	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0196	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0408	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0354	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0212	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0283	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0243	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0664	5.34	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0323	1.07	PQL	ng/Kg	
	OCDD	JB	0.930	10.7	PQL	ng/Kg	
	OCDF	JB	0.122	10.7	PQL	ng/Kg	
SL-097-SA6-SB-1.5-2.5	1,2,3,4,7,8,9-HPCDF	JB	0.756	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.451	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.417	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.55	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.328	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.583	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.128	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.165	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.190	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.490	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.297	5.05	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0589	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.362	1.01	PQL	ng/Kg	
SL-162-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.79	4.95	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.320	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.08	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.645	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.35	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.405	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.64	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.240	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.651	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.162	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.328	4.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.476	4.95	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0887	0.989	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.291	0.989	PQL	ng/Kg	
SL-164-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.78	4.92	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.150	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.295	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.156	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.759	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.207	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.940	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0827	4.92	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.199	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0561	4.92	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.133	4.92	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0857	4.92	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0449	0.984	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0393	0.984	PQL	ng/Kg	
	OCDF	JB	3.88	9.84	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX116 **Laboratory: LL**

EDD Filename: DX116_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-165-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.64	4.98	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.149	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.260	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.131	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.738	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.146	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.737	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0821	4.98	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.157	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0641	4.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.117	4.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0825	4.98	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0342	0.996	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0919	0.996	PQL	ng/Kg	
	OCDF	JB	3.98	9.96	PQL	ng/Kg	
SL-167-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.362	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.38	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.355	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.84	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.219	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.97	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.199	4.93	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.882	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0882	4.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.252	4.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.202	4.93	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.134	0.986	PQL	ng/Kg	
SL-211-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	4.58	4.83	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	3.80	4.83	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.83	4.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.16	4.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.993	4.83	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.63	4.83	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	1.49	4.83	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.90	4.83	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.02	4.83	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.248	0.966	PQL	ng/Kg	
SL-215-SA6-SS-0.0-0.5	1,2,3,6,7,8-HXCDF	JB	4.38	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.92	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	3.37	5.00	PQL	ng/Kg	
SL-216-SA6-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	1.58	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	4.60	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.88	5.04	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JB	3.35	5.04	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.474	1.01	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX116 **Laboratory: LL**

EDD Filename: DX116_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-218-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	4.00	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.83	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.68	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.11	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.69	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.10	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.305	4.98	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.656	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.337	4.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.13	4.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.570	4.98	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.103	0.996	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.484	0.996	PQL	ng/Kg	
SL-219-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.61	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.08	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.13	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.52	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.806	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.85	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.383	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.451	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.342	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.890	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.704	5.00	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0721	0.999	PQL	ng/Kg	
	2,3,7,8-TCDF	J BC	0.866	0.999	PQL	ng/Kg	
SL-220-SA6-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	3.48	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	3.76	4.97	PQL	ng/Kg	J (all detects)
	2,3,7,8-TCDD	J	0.898	0.994	PQL	ng/Kg	
SL-310-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	4.21	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	4.38	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.65	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.48	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.930	4.93	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	2.12	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.31	4.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.65	4.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	4.71	4.93	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.285	0.985	PQL	ng/Kg	
SL-321-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.50	4.93	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.299	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.320	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.276	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.669	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.147	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.487	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.208	4.93	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.131	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0812	4.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.183	4.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.113	4.93	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0741	0.987	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0483	0.987	PQL	ng/Kg	
	OCDF	JB	6.42	9.87	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX116 **Laboratory: LL**

EDD Filename: DX116_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-322-SA6-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	JB	2.73	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.34	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.39	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.67	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.34	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.666	4.98	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.253	4.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.07	4.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.511	4.98	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.112	0.995	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.110	0.995	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX117

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Jul-2011	SL-073-SA6-SB-4.0-5.0	6353228	N	METHOD	1613B	III
21-Jul-2011	DUP05-SA6-QC-072111	6353227	FD	METHOD	1613B	III
21-Jul-2011	SL-105-SA6-SB-2.5-3.5	6353232	N	METHOD	1613B	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5	6353217	N	METHOD	1613B	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MS	6353218	MS	METHOD	1613B	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MSD	6353219	MSD	METHOD	1613B	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MSD	P353217M372111	MSD	METHOD	1613B	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MS	P353217R372014	MS	METHOD	1613B	III
21-Jul-2011	DUP06-SA6-QC-072111	6353226	FD	METHOD	1613B	III
21-Jul-2011	SL-314-SA6-SS-0.0-0.5	6353222	N	METHOD	1613B	III
21-Jul-2011	SL-315-SA6-SS-0.0-0.5	6353223	N	METHOD	1613B	III
21-Jul-2011	SL-237-SA6-SS-0.0-0.5	6353220	N	METHOD	1613B	III
21-Jul-2011	SL-316-SA6-SS-0.0-0.5	6353224	N	METHOD	1613B	III
21-Jul-2011	SL-104-SA6-SB-2.5-3.5	6353231	N	METHOD	1613B	III
21-Jul-2011	SL-318-SA6-SS-0.0-0.5	6353225	N	METHOD	1613B	III
21-Jul-2011	SL-240-SA6-SS-0.0-0.5	6353221	N	METHOD	1613B	III
21-Jul-2011	SL-081-SA6-SB-4.0-5.0	6353229	N	METHOD	1613B	III
21-Jul-2011	SL-081-SA6-SB-9.0-10.0	6353230	N	METHOD	1613B	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5	6354170	N	METHOD	1613B	III
22-Jul-2011	SL-238-SA6-SS-0.0-0.5	6354171	N	METHOD	1613B	III
22-Jul-2011	SL-241-SA6-SS-0.0-0.5	6354172	N	METHOD	1613B	III
22-Jul-2011	SL-243-SA6-SS-0.0-0.5	6354174	N	METHOD	1613B	III
22-Jul-2011	SL-244-SA6-SS-0.0-0.5	6354175	N	METHOD	1613B	III
22-Jul-2011	SL-242-SA6-SS-0.0-0.5	6354173	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX117 **Laboratory: LL**

EDD Filename: DX117_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: DUP05-SA6-QC-072111 *Collected:* 7/21/2011 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
1,2,3,4,7,8-HxCDD	3.80	JB	0.0882	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.85	JB	0.0770	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.17	J	0.0697	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.969	JB	0.0744	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.85	JB	0.101	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	13.1	B	0.0825	MDL	4.92	PQL	ng/Kg	J	FD
2,3,4,6,7,8-HXCDF	2.95	JB	0.0714	MDL	4.92	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.69	JB	0.0801	MDL	4.92	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.260	JQ	0.0400	MDL	0.985	PQL	ng/Kg	J	Z

Sample ID: DUP06-SA6-QC-072111 *Collected:* 7/21/2011 12:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	4.88	JB	0.0840	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.68	J	0.0733	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.973	JB	0.0872	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	7.94	B	0.0983	MDL	5.08	PQL	ng/Kg	J	FD
1,2,3,7,8-PECDF	4.53	JB	0.0621	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.63	JB	0.0623	MDL	5.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.653	J	0.0478	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	5500	EB	0.214	MDL	10.2	PQL	ng/Kg	J	*XI

Sample ID: SL-073-SA6-SB-4.0-5.0 *Collected:* 7/21/2011 10:00:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.929	J BC	0.0356	MDL	1.09	PQL	ng/Kg	J	Z

Sample ID: SL-073-SA6-SB-4.0-5.0 *Collected:* 7/21/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.07	JB	0.0872	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.50	JB	0.0908	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.45	JB	0.0543	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.02	J	0.0532	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.05	JB	0.0882	MDL	5.45	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX117 Laboratory: LL

EDD Filename: DX117_v1. eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-073-SA6-SB-4.0-5.0 *Collected:* 7/21/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.386	JB	0.0561	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.85	JB	0.0684	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.22	JB	0.0461	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.81	JB	0.0546	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.945	JB	0.0421	MDL	5.45	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.324	J	0.0395	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	5320	EB	0.245	MDL	10.9	PQL	ng/Kg	J	*XI

Sample ID: SL-081-SA6-SB-4.0-5.0 *Collected:* 7/21/2011 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.24	JB	0.0573	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.152	JBQ	0.0255	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0482	JBQ	0.0446	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0600	JBQ	0.0366	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.128	JBQ	0.0362	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0221	JQ	0.0179	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0987	JB	0.0343	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0804	JBQ	0.0375	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0177	JBQ	0.0168	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0242	JBQ	0.0191	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0345	JB	0.0153	MDL	5.29	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0392	JQ	0.0322	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0268	JBQ	0.0265	MDL	1.06	PQL	ng/Kg	U	B
OCDD	7.81	JB	0.0964	MDL	10.6	PQL	ng/Kg	U	B
OCDF	0.414	JB	0.0521	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-081-SA6-SB-9.0-10.0 *Collected:* 7/21/2011 3:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.05	JB	0.0575	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.102	JBQ	0.0234	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0739	JB	0.0498	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0211	JB	0.0211	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0590	JB	0.0321	MDL	5.54	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX117 **Laboratory:** LL

EDD Filename: DX117_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-081-SA6-SB-9.0-10.0 ***Collected:*** 7/21/2011 3:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.0220	JQ	0.0175	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0884	JBQ	0.0301	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0231	JBQ	0.0226	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0614	JBQ	0.0284	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0203	JBQ	0.0144	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0493	JBQ	0.0193	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0569	JBQ	0.0146	MDL	5.54	PQL	ng/Kg	U	B
OCDD	6.36	JB	0.0913	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.254	JB	0.0994	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-104-SA6-SB-2.5-3.5 ***Collected:*** 7/21/2011 2:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.76	JB	0.0403	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.181	JBQ	0.0553	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.125	JBQ	0.0545	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.483	JB	0.0408	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.495	JB	0.0541	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.238	J	0.0416	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.258	JBQ	0.0528	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.122	JBQ	0.0395	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.19	JBQ	0.0374	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.195	JB	0.0407	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.772	JB	0.0337	MDL	5.38	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0441	J	0.0373	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0845	JBQ	0.0410	MDL	1.08	PQL	ng/Kg	U	B
OCDF	10.4	JB	0.0683	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-105-SA6-SB-2.5-3.5 ***Collected:*** 7/21/2011 10:59:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.55	JB	0.0460	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.745	JB	0.0235	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0715	JBQ	0.0398	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0912	JB	0.0344	MDL	5.30	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX117 **Laboratory:** LL

EDD Filename: DX117_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-105-SA6-SB-2.5-3.5 *Collected:* 7/21/2011 10:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.162	JBQ	0.0247	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.188	JB	0.0335	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.124	J	0.0226	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.132	JB	0.0323	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0621	JBQ	0.0279	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0911	JBQ	0.0267	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.203	JBQ	0.0192	MDL	5.30	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0956	JB	0.0243	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.315	JBQ	0.0193	MDL	5.30	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0444	JQ	0.0287	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0844	JB	0.0260	MDL	1.06	PQL	ng/Kg	U	B
OCDD	36.6	B	0.0931	MDL	10.6	PQL	ng/Kg	U	B
OCDF	1.46	JBQ	0.0475	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-228-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 12:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	4.43	JB	0.0822	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.35	J	0.0754	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.898	JB	0.0794	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.23	JB	0.0945	MDL	4.86	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	2.47	JB	0.0628	MDL	4.86	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.611	J	0.0493	MDL	0.973	PQL	ng/Kg	J	Z
OCDD	5810	EB	0.187	MDL	9.73	PQL	ng/Kg	J	*XI

Sample ID: SL-233-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 8:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.18	JB	0.0762	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.29	JB	0.0682	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.46	JB	0.0489	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.85	JB	0.0667	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.27	J	0.0415	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.06	JB	0.0670	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.294	JB	0.0594	MDL	4.98	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX117 **Laboratory:** LL

EDD Filename: DX117_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-233-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 8:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	3.29	JB	0.0479	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.11	JB	0.0354	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.79	JB	0.0463	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.625	JB	0.0364	MDL	4.98	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.179	JQ	0.0289	MDL	0.997	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.358	JB	0.0599	MDL	0.997	PQL	ng/Kg	J	Z

Sample ID: SL-237-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	1.59	JB	0.0935	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.57	JB	0.0862	MDL	4.96	PQL	ng/Kg	J	Z
OCDD	10300	EB	0.313	MDL	9.92	PQL	ng/Kg	J	*XI

Sample ID: SL-238-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 8:56:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.62	JB	0.0199	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.280	JBQ	0.0464	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.211	JB	0.0367	MDL	4.91	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.473	JB	0.0324	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.637	JB	0.0364	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.200	J	0.0278	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.526	JB	0.0343	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.244	JB	0.0381	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.176	JBQ	0.0301	MDL	4.91	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.426	JBQ	0.0250	MDL	4.91	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.312	JB	0.0312	MDL	4.91	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.394	JBQ	0.0269	MDL	4.91	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0344	JQ	0.0271	MDL	0.983	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.259	JB	0.0435	MDL	0.983	PQL	ng/Kg	J	Z
OCDF	5.97	JB	0.0455	MDL	9.83	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX117 **Laboratory:** LL

EDD Filename: DX117_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-240-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 3:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.23	JB	0.0329	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.259	JBQ	0.0527	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.342	JB	0.0456	MDL	5.01	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.519	JBQ	0.0406	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.798	JB	0.0468	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.288	J	0.0356	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.676	JB	0.0467	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.206	JB	0.0435	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.254	JB	0.0423	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.757	JB	0.0360	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.363	JB	0.0392	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.561	JB	0.0346	MDL	5.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0510	JQ	0.0376	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.316	JBQ	0.0613	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	8.95	JB	0.0501	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-241-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.739	JB	0.0467	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.638	JBQ	0.0502	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.566	JB	0.0344	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.33	JB	0.0512	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.514	J	0.0306	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.13	JB	0.0481	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.203	JBQ	0.0405	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.277	JBQ	0.0360	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.182	JB	0.0270	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.611	JB	0.0322	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.277	JBQ	0.0258	MDL	4.94	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0427	J	0.0253	MDL	0.987	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.105	JBQ	0.0331	MDL	0.987	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX117 **Laboratory:** LL

EDD Filename: DX117_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-242-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 3:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.04	JB	0.0496	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.664	JB	0.0668	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.863	JB	0.0471	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.62	JB	0.0679	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.710	J	0.0453	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.50	JB	0.0657	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.355	JB	0.0461	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.356	JBQ	0.0459	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.353	JBQ	0.0443	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.809	JB	0.0427	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.364	JB	0.0395	MDL	5.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0508	JQ	0.0360	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.228	JB	0.0531	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-243-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.03	JB	0.0667	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.41	JB	0.0522	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.09	JB	0.0441	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.55	JB	0.0525	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.823	J	0.0356	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.24	JB	0.0542	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.431	JB	0.0518	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.02	JB	0.0541	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.541	JB	0.0333	MDL	4.86	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.01	JB	0.0396	MDL	4.86	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.755	JB	0.0358	MDL	4.86	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0775	JQ	0.0331	MDL	0.971	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.282	JBQ	0.0532	MDL	0.971	PQL	ng/Kg	J	Z

Sample ID: SL-244-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 3:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.21	JB	0.0648	MDL	4.90	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX117 **Laboratory: LL**

EDD Filename: DX117_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-244-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 3:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.772	JB	0.0547	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.21	JB	0.0508	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.42	JB	0.0538	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.817	J	0.0435	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.62	JB	0.0516	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.510	JBQ	0.0603	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.538	JB	0.0435	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.905	JB	0.0486	MDL	4.90	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.07	JB	0.0481	MDL	4.90	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.53	JB	0.0496	MDL	4.90	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0998	J	0.0308	MDL	0.979	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.486	JB	0.0883	MDL	0.979	PQL	ng/Kg	J	Z

Sample ID: SL-314-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 1:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	25500	EB	3.04	MDL	42.5	PQL	ng/Kg	J	*XI
1,2,3,7,8,9-HXCDF	36.0	JB	1.15	MDL	42.5	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	26.3	JB	0.196	MDL	42.5	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	40.7	JB	0.228	MDL	42.5	PQL	ng/Kg	J	Z
OCDD	280000	EB	2.06	MDL	85.1	PQL	ng/Kg	J	*XI

Sample ID: SL-315-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 1:37:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	7.60	J BC	0.833	MDL	8.56	PQL	ng/Kg	J	Z

Sample ID: SL-315-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 1:37:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	21100	EB	2.61	MDL	42.8	PQL	ng/Kg	J	*XI
1,2,3,7,8,9-HXCDF	36.7	JB	0.933	MDL	42.8	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	25.6	JB	0.264	MDL	42.8	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	34.4	JB	0.294	MDL	42.8	PQL	ng/Kg	J	Z
OCDD	289000	EB	1.98	MDL	85.6	PQL	ng/Kg	J	*XI

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX117 **Laboratory:** LL

EDD Filename: DX117_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-316-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:20:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	2.23	J BC	0.677	MDL	9.25	PQL	ng/Kg	J	Z

Sample ID: SL-316-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	12.6	JB	0.279	MDL	46.2	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	11.3	JB	0.286	MDL	46.2	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	8.30	JB	0.254	MDL	9.25	PQL	ng/Kg	J	Z
OCDD	74300	EB	1.35	MDL	92.5	PQL	ng/Kg	J	*XI

Sample ID: SL-318-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:41:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2800	EB	0.364	MDL	5.01	PQL	ng/Kg	J	*XI
1,2,3,7,8,9-HXCDF	3.37	JB	0.134	MDL	5.01	PQL	ng/Kg	J	Z
OCDD	37200	EB	0.358	MDL	10.0	PQL	ng/Kg	J	*XI

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX117 **Laboratory: LL**

EDD Filename: DX117_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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
*XI	Compound Quantitation and CRQL
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

Data Qualifier Summary

Lab Reporting Batch ID: DX117 **Laboratory: LL**

EDD Filename: DX117_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

Data Qualifier Summary

Lab Reporting Batch ID: DX117 **Laboratory: LL**

EDD Filename: DX117_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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX117

Method Blank Outlier Report

Lab Reporting Batch ID: DX117 **Laboratory: LL**

EDD Filename: DX117_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2150B371821	8/6/2011 6:21:00 PM	1,2,3,4,6,7,8-HPCDD	1.55 ng/Kg	DUP05-SA6-QC-072111
		1,2,3,4,6,7,8-HPCDF	0.0375 ng/Kg	DUP06-SA6-QC-072111
		1,2,3,4,7,8,9-HPCDF	0.0418 ng/Kg	SL-073-SA6-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0923 ng/Kg	SL-081-SA6-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0210 ng/Kg	SL-081-SA6-SB-9.0-10.0
		1,2,3,6,7,8-HXCDD	0.0904 ng/Kg	SL-104-SA6-SB-2.5-3.5
		1,2,3,7,8,9-HXCDD	0.0884 ng/Kg	SL-105-SA6-SB-2.5-3.5
		1,2,3,7,8,9-HXCDF	0.0316 ng/Kg	SL-228-SA6-SS-0.0-0.5
		1,2,3,7,8-PECDD	0.0492 ng/Kg	SL-233-SA6-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0271 ng/Kg	SL-237-SA6-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0231 ng/Kg	SL-238-SA6-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0505 ng/Kg	SL-240-SA6-SS-0.0-0.5
		2,3,7,8-TCDF	0.0312 ng/Kg	SL-241-SA6-SS-0.0-0.5
		OCDD	9.37 ng/Kg	SL-242-SA6-SS-0.0-0.5
		OCDF	0.101 ng/Kg	SL-243-SA6-SS-0.0-0.5
				SL-244-SA6-SS-0.0-0.5
				SL-318-SA6-SS-0.0-0.5
BLK2220B372003	8/11/2011 8:03:00 PM	1,2,3,4,6,7,8-HPCDD	0.288 ng/Kg	SL-314-SA6-SS-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.0535 ng/Kg	SL-315-SA6-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0287 ng/Kg	SL-316-SA6-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0201 ng/Kg	
		1,2,3,4,7,8-HXCDF	0.0276 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0380 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0102 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0395 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0235 ng/Kg	
		1,2,3,7,8-PECDD	0.0211 ng/Kg	
		1,2,3,7,8-PECDF	0.0321 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0245 ng/Kg	
		2,3,4,7,8-PECDF	0.0487 ng/Kg	
		2,3,7,8-TCDD	0.0120 ng/Kg	
		OCDD	0.582 ng/Kg	
		OCDF	0.102 ng/Kg	

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-081-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.24 ng/Kg	1.24U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,6-HPCDF	0.152 ng/Kg	0.152U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0482 ng/Kg	0.0482U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0600 ng/Kg	0.0600U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.128 ng/Kg	0.128U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0987 ng/Kg	0.0987U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0804 ng/Kg	0.0804U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0177 ng/Kg	0.0177U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0242 ng/Kg	0.0242U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0345 ng/Kg	0.0345U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0268 ng/Kg	0.0268U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	OCDD	7.81 ng/Kg	7.81U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	OCDF	0.414 ng/Kg	0.414U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	1.05 ng/Kg	1.05U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.102 ng/Kg	0.102U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0739 ng/Kg	0.0739U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0211 ng/Kg	0.0211U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0590 ng/Kg	0.0590U ng/Kg

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DX117 Laboratory: LL

EDD Filename: DX117_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-081-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0884 ng/Kg	0.0884U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0231 ng/Kg	0.0231U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0614 ng/Kg	0.0614U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0203 ng/Kg	0.0203U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0493 ng/Kg	0.0493U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0569 ng/Kg	0.0569U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	OCDD	6.38 ng/Kg	6.36U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	OCDF	0.254 ng/Kg	0.254U ng/Kg
SL-104-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.181 ng/Kg	0.181U ng/Kg
SL-104-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HxCDD	0.125 ng/Kg	0.125U ng/Kg
SL-104-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.258 ng/Kg	0.258U ng/Kg
SL-104-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.122 ng/Kg	0.122U ng/Kg
SL-104-SA6-SB-2.5-3.5(RES)	2,3,7,8-TCDF	0.0845 ng/Kg	0.0845U ng/Kg
SL-105-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	4.55 ng/Kg	4.55U ng/Kg
SL-105-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0715 ng/Kg	0.0715U ng/Kg
SL-105-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HxCDD	0.0912 ng/Kg	0.0912U ng/Kg
SL-105-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDD	0.188 ng/Kg	0.188U ng/Kg
SL-105-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.132 ng/Kg	0.132U ng/Kg
SL-105-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.0621 ng/Kg	0.0621U ng/Kg
SL-105-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.0911 ng/Kg	0.0911U ng/Kg
SL-105-SA6-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.0956 ng/Kg	0.0956U ng/Kg
SL-105-SA6-SB-2.5-3.5(RES)	2,3,7,8-TCDF	0.0844 ng/Kg	0.0844U ng/Kg
SL-105-SA6-SB-2.5-3.5(RES)	OCDD	36.6 ng/Kg	36.6U ng/Kg
SL-238-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.211 ng/Kg	0.211U ng/Kg
SL-238-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.176 ng/Kg	0.176U ng/Kg
SL-240-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.342 ng/Kg	0.342U ng/Kg
SL-241-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.105 ng/Kg	0.105U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX117 **Laboratory: LL**

EDD Filename: DX117_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-228-SA6-SS-0.0-0.5MS SL-228-SA6-SS-0.0-0.5MSD (SL-228-SA6-SS-0.0-0.5)	1,2,3,4,6,7,8-HPCDD OCDD	148 584	- 139	40.00-135.00 40.00-135.00	- -	1,2,3,4,6,7,8-HPCDD OCDD	No Qual, >4x

Field Duplicate RPD Report

Lab Reporting Batch ID: DX117 **Laboratory: LL**

EDD Filename: DX117_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-228-SA6-SS-0.0-0.5	DUP06-SA6-QC-072111			
MOISTURE	1.9	1.8	5		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-228-SA6-SS-0.0-0.5	DUP06-SA6-QC-072111			
1,2,3,4,6,7,8-HPCDD	600	561	7	50.00	
1,2,3,4,6,7,8-HPCDF	115	116	1	50.00	
1,2,3,4,7,8,9-HPCDF	10.7	11.1	4	50.00	
1,2,3,4,7,8-HxCDD	7.93	6.48	20	50.00	
1,2,3,4,7,8-HXCDF	4.43	4.88	10	50.00	
1,2,3,6,7,8-HXCDD	23.8	22.9	4	50.00	
1,2,3,6,7,8-HXCDF	3.35	3.68	9	50.00	
1,2,3,7,8,9-HXCDD	10.2	9.06	12	50.00	
1,2,3,7,8,9-HXCDF	0.898	0.973	8	50.00	No Qualifiers Applied
1,2,3,7,8-PECDF	5.43	4.53	18	50.00	
2,3,4,6,7,8-HXCDF	5.61	6.02	7	50.00	
2,3,4,7,8-PECDF	2.47	2.63	6	50.00	
2,3,7,8-TCDD	0.611	0.653	7	50.00	
2,3,7,8-TCDF	1.98	2.18	10	50.00	
OCDD	5810	5500	5	50.00	
OCDF	355	344	3	50.00	
1,2,3,7,8-PECDD	2.23	7.94	112	50.00	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DX117 **Laboratory: LL**

EDD Filename: DX117_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA6-QC-072111	1,2,3,4,7,8-HxCDD	JB	3.80	4.92	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HXCDF	JB	4.85	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	3.17	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.969	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.85	4.92	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.95	4.92	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.69	4.92	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.260	0.985	PQL	ng/Kg	
DUP06-SA6-QC-072111	1,2,3,4,7,8-HXCDF	JB	4.88	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,6,7,8-HXCDF	J	3.68	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.973	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	4.53	5.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.63	5.08	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.653	1.02	PQL	ng/Kg	
SL-073-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	3.07	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	3.50	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.45	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	1.02	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.05	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.386	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.85	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.22	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.81	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.945	5.45	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.324	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J BC	0.929	1.09	PQL	ng/Kg	
SL-081-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.24	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.152	5.29	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0482	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0600	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.128	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0221	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0987	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0804	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0177	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0242	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0345	5.29	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0392	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0268	1.06	PQL	ng/Kg	
	OCDD	JB	7.81	10.6	PQL	ng/Kg	
	OCDF	JB	0.414	10.6	PQL	ng/Kg	
SL-081-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.05	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.102	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0739	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0211	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0590	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0220	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0884	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0231	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0614	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0203	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0493	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0569	5.54	PQL	ng/Kg	
	OCDD	JB	6.36	11.1	PQL	ng/Kg	
	OCDF	JB	0.254	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX117 **Laboratory: LL**

EDD Filename: DX117_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-104-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDF	JB	2.76	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.181	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.125	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.483	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.495	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.238	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.258	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.122	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	1.19	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.195	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.772	5.38	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0441	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0845	1.08	PQL	ng/Kg	
	OCDF	JB	10.4	10.8	PQL	ng/Kg	
SL-105-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	4.55	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.745	5.30	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0715	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0912	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.162	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.188	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.124	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.132	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0621	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0911	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.203	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0956	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.315	5.30	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0444	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0844	1.06	PQL	ng/Kg	
	OCDF	JBQ	1.46	10.6	PQL	ng/Kg	
SL-228-SA6-SS-0.0-0.5	1,2,3,4,7,8-HXCDF	JB	4.43	4.86	PQL	ng/Kg	J (all detects)
	1,2,3,6,7,8-HXCDF	J	3.35	4.86	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.898	4.86	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.23	4.86	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.47	4.86	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.611	0.973	PQL	ng/Kg	
SL-233-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	3.18	4.98	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.29	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.46	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.85	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	1.27	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.06	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.294	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	3.29	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.11	4.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.79	4.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.625	4.98	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.179	0.997	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.358	0.997	PQL	ng/Kg	
SL-237-SA6-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	1.59	4.96	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JB	3.57	4.96	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX117 **Laboratory: LL**

EDD Filename: DX117_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-238-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.62	4.91	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.280	4.91	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.211	4.91	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.473	4.91	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.637	4.91	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.200	4.91	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.526	4.91	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.244	4.91	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.176	4.91	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.426	4.91	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.312	4.91	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.394	4.91	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0344	0.983	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.259	0.983	PQL	ng/Kg	
	OCDF	JB	5.97	9.83	PQL	ng/Kg	
SL-240-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.23	5.01	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.259	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.342	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.519	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.798	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.288	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.676	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.206	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.254	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.757	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.363	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.561	5.01	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0510	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.316	1.00	PQL	ng/Kg	
	OCDF	JB	8.95	10.0	PQL	ng/Kg	
SL-241-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.739	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.638	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.566	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.33	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.514	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.13	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.203	4.94	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.277	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.182	4.94	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.611	4.94	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.277	4.94	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0427	0.987	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.105	0.987	PQL	ng/Kg	
SL-242-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.04	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.664	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.863	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.62	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.710	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.50	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.355	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.356	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.353	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.809	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.364	5.01	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0508	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.228	1.00	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX117 **Laboratory: LL**

EDD Filename: DX117_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-243-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.03	4.86	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.41	4.86	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.09	4.86	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.55	4.86	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.823	4.86	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.24	4.86	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.431	4.86	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.02	4.86	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.541	4.86	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.01	4.86	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.755	4.86	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0775	0.971	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.282	0.971	PQL	ng/Kg	
SL-244-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.21	4.90	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.772	4.90	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.21	4.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.42	4.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.817	4.90	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.62	4.90	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.510	4.90	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.538	4.90	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.905	4.90	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.07	4.90	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.53	4.90	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0998	0.979	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.486	0.979	PQL	ng/Kg	
SL-314-SA6-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	36.0	42.5	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	26.3	42.5	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JB	40.7	42.5	PQL	ng/Kg	
SL-315-SA6-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	36.7	42.8	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	25.6	42.8	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JB	34.4	42.8	PQL	ng/Kg	
	2,3,7,8-TCDF	J BC	7.60	8.56	PQL	ng/Kg	
SL-316-SA6-SS-0.0-0.5	1,2,3,7,8-PECDF	JB	12.6	46.2	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	11.3	46.2	PQL	ng/Kg	J (all detects)
	2,3,7,8-TCDD	JB	8.30	9.25	PQL	ng/Kg	
	2,3,7,8-TCDF	J BC	2.23	9.25	PQL	ng/Kg	
SL-318-SA6-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	3.37	5.01	PQL	ng/Kg	J (all detects)

SAMPLE DELIVERY GROUP

DX118

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-Jul-2011	SL-103-SA6-SB-4.0-5.0	6354181	N	METHOD	1613B	III
22-Jul-2011	SL-103-SA6-SB-9.0-10.0	6354182	N	METHOD	1613B	III
22-Jul-2011	SL-082-SA6-SB-4.0-5.0	6354179	N	METHOD	1613B	III
22-Jul-2011	SL-082-SA6-SB-9.0-10.0	6354180	N	METHOD	1613B	III
22-Jul-2011	SL-124-SA6-SB-4.0-5.0	6354183	N	METHOD	1613B	III
22-Jul-2011	SL-124-SA6-SB-12.5-13.5	6354184	N	METHOD	1613B	III
22-Jul-2011	SL-308-SA6-SS-0.0-0.5	6354177	N	METHOD	1613B	III
22-Jul-2011	SL-307-SA6-SS-0.0-0.5	6354176	N	METHOD	1613B	III
22-Jul-2011	SL-309-SA6-SS-0.0-0.5	6354178	N	METHOD	1613B	III
22-Jul-2011	SL-075-SA6-SB-4.0-5.0	6354185	N	METHOD	1613B	III
22-Jul-2011	SL-075-SA6-SB-9.0-10.0	6354186	N	METHOD	1613B	III
25-Jul-2011	SL-289-SA6-SB-3.5-4.5	6355068	N	METHOD	1613B	III
25-Jul-2011	SL-098-SA6-SB-2.0-3.0	6355065	N	METHOD	1613B	III
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MS	6355066	MS	METHOD	1613B	III
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MSD	6355067	MSD	METHOD	1613B	III
25-Jul-2011	DUP07-SA6-QC-072511	6355069	FD	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX118 Laboratory: LL

EDD Filename: DX118_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP07-SA6-QC-072511 *Collected:* 7/25/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.492	JB	0.0188	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,4,6,7,8-HPCDF	0.0595	JB	0.00682	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0469	JBQ	0.0140	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0234	JBQ	0.0124	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.0407	JBQ	0.00948	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.0423	JB	0.0125	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0343	JB	0.00745	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.0424	JB	0.0126	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0546	JB	0.0113	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0555	JBQ	0.0140	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0518	JB	0.0110	MDL	5.24	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0399	JBQ	0.00841	MDL	5.24	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0766	JBQ	0.0126	MDL	5.24	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0208	JB	0.0117	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0104	U	0.0104	MDL	1.05	PQL	ng/Kg	UJ	FD
OCDD	2.82	JB	0.0194	MDL	10.5	PQL	ng/Kg	UJ	B, FD
OCDF	0.138	JB	0.0215	MDL	10.5	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-075-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.979	JB	0.0129	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.159	JBQ	0.0226	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0625	JB	0.0272	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0986	JB	0.0222	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.304	JB	0.0268	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0854	JB	0.0186	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.156	JB	0.0263	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0677	JBQ	0.0237	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0399	JB	0.0179	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.280	JB	0.0140	MDL	5.56	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.109	JBQ	0.0204	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.112	JB	0.0151	MDL	5.56	PQL	ng/Kg	U	B
OCDF	2.20	JB	0.0235	MDL	11.1	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX118 **Laboratory:** LL

EDD Filename: DX118_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-075-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.61	JB	0.0391	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.789	JB	0.0528	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.96	JB	0.0419	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.46	JB	0.0543	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.977	JB	0.0391	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.15	JB	0.0518	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.507	JB	0.0439	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.273	JB	0.0460	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.47	JB	0.0316	MDL	5.20	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.05	JB	0.0387	MDL	5.20	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.12	JB	0.0335	MDL	5.20	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.130	JB	0.0172	MDL	1.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.494	J	0.0613	MDL	1.04	PQL	ng/Kg	J	Z

Sample ID: SL-082-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.39	JB	0.0256	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.156	JB	0.0344	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0806	JB	0.0330	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.523	JB	0.0423	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.283	JBQ	0.0337	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.125	JB	0.0398	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.132	JB	0.0337	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0451	JB	0.0229	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.77	JB	0.0372	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.150	JBQ	0.0385	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.114	JB	0.0366	MDL	5.12	PQL	ng/Kg	U	B
OCDF	3.60	JB	0.0332	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-082-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 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
1,2,3,4,6,7,8-HPCDD	0.468	JBQ	0.0237	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.123	JBQ	0.0178	MDL	5.43	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX118 Laboratory: LL

EDD Filename: DX118_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-082-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 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
1,2,3,4,7,8,9-HPCDF	0.0682	JB	0.0325	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0874	JB	0.0133	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0365	JBQ	0.0146	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0276	JBQ	0.0112	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0281	JBQ	0.0143	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0402	JB	0.0161	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0329	JBQ	0.0128	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0272	JBQ	0.0122	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0407	JBQ	0.0135	MDL	5.43	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0202	JQ	0.0148	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	1.95	JB	0.0257	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.204	JB	0.0292	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-098-SA6-SB-2.0-3.0 *Collected:* 7/25/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	6.92	B	0.0363	MDL	5.13	PQL	ng/Kg	J	FD
1,2,3,4,6,7,8-HPCDF	1.12	JB	0.0152	MDL	5.13	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8,9-HPCDF	0.123	JB	0.0179	MDL	5.13	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0427	JBQ	0.0262	MDL	5.13	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.175	JB	0.0210	MDL	5.13	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	0.228	JB	0.0270	MDL	5.13	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0873	JB	0.0210	MDL	5.13	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.101	JBQ	0.0268	MDL	5.13	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0362	JB	0.0212	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0473	JBQ	0.0187	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.333	JB	0.0238	MDL	5.13	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.0979	JB	0.0191	MDL	5.13	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0986	JB	0.0225	MDL	5.13	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0125	JB	0.0111	MDL	1.03	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0783	J	0.0309	MDL	1.03	PQL	ng/Kg	J	Z, FD
OCDD	92.5	B	0.0254	MDL	10.3	PQL	ng/Kg	J	FD
OCDF	3.04	JB	0.0216	MDL	10.3	PQL	ng/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX118 **Laboratory:** LL

EDD Filename: DX118_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-103-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 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
1,2,3,4,6,7,8-HPCDD	0.456	JB	0.0237	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0712	JB	0.0124	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0423	JBQ	0.0222	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0370	JB	0.0135	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0501	JB	0.0108	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0603	JB	0.0138	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0445	JBQ	0.00888	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0505	JB	0.0129	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0412	JB	0.0123	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0797	JBQ	0.0157	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.102	JBQ	0.0104	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0316	JBQ	0.00984	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.106	JB	0.0113	MDL	5.34	PQL	ng/Kg	U	B
OCDD	1.56	JB	0.0214	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.141	JB	0.0241	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-103-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 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
1,2,3,4,6,7,8-HPCDD	0.573	JB	0.0212	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.113	JBQ	0.00735	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0460	JBQ	0.0122	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0660	JBQ	0.0173	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.122	JB	0.0143	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0762	JBQ	0.0179	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.103	JB	0.0120	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0825	JBQ	0.0167	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0983	JB	0.0148	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.178	JBQ	0.0186	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.239	JB	0.0125	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0872	JB	0.0136	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.233	JB	0.0129	MDL	5.44	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.115	JB	0.0152	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.119	JQ	0.0147	MDL	1.09	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX118 **Laboratory:** LL

EDD Filename: DX118_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-103-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 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
OCDD	2.29	JB	0.0193	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.202	JB	0.0221	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-124-SA6-SB-12.5-13.5 *Collected:* 7/22/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.42	JB	0.0351	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.487	JB	0.0415	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.46	JB	0.0386	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.75	JB	0.0433	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.774	JB	0.0366	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.10	JB	0.0407	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.392	JB	0.0396	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.215	JB	0.0377	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.16	JB	0.0348	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.20	JB	0.0370	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.05	JB	0.0346	MDL	5.45	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.107	JBQ	0.0133	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.730	J	0.0647	MDL	1.09	PQL	ng/Kg	J	Z

Sample ID: SL-124-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 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
1,2,3,4,7,8,9-HPCDF	3.05	JB	0.0534	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.67	JB	0.0637	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.98	JB	0.0551	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.11	JB	0.0517	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.98	JB	0.0645	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.484	JB	0.0514	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.549	JB	0.0520	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.15	JB	0.0426	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.86	JB	0.0517	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.866	JB	0.0449	MDL	5.28	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.228	JB	0.0156	MDL	1.06	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX118 **Laboratory:** LL

EDD Filename: DX118_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-289-SA6-SB-3.5-4.5 **Collected:** 7/25/2011 8:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.451	JB	0.0197	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0839	JBQ	0.0154	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0922	JB	0.0327	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0402	JBQ	0.0138	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0655	JBQ	0.0123	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0537	JB	0.0145	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0395	JBQ	0.00980	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0812	JB	0.0140	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.108	JB	0.0143	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0657	JB	0.0176	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0686	JBQ	0.0123	MDL	5.18	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0510	JB	0.0109	MDL	5.18	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0887	JB	0.0139	MDL	5.18	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0168	JQ	0.0133	MDL	1.04	PQL	ng/Kg	J	Z
OCDD	1.18	JB	0.0201	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.223	JB	0.0244	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-307-SA6-SS-0.0-0.5 **Collected:** 7/22/2011 2:12:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.14	JB	0.0390	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.718	JB	0.0368	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.78	JB	0.0612	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.43	JB	0.0389	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.37	JB	0.0539	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.58	JB	0.0379	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.647	JB	0.0601	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.462	JB	0.0559	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.39	JB	0.0550	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.41	JB	0.0810	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0374	JB	0.0183	MDL	1.00	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX118 **Laboratory:** LL

EDD Filename: DX118_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-308-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 1:54:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.96	JB	0.0135	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.360	JB	0.0259	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.251	JB	0.0287	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.284	JB	0.0236	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.814	JB	0.0293	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.262	JB	0.0188	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.881	JB	0.0266	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.289	JBQ	0.0235	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.244	JB	0.0287	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.133	JB	0.0149	MDL	5.08	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.278	JB	0.0212	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.218	JB	0.0158	MDL	5.08	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0575	JB	0.0168	MDL	1.02	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.108	J	0.0257	MDL	1.02	PQL	ng/Kg	J	Z

Sample ID: SL-309-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.569	JB	0.0427	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.568	JB	0.0372	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.13	JB	0.0492	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.65	JB	0.0381	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.597	JB	0.0400	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.33	JB	0.0389	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.363	JBQ	0.0514	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.405	JB	0.0345	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.06	JB	0.0466	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.668	JB	0.0427	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.59	JB	0.0491	MDL	5.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0656	JB	0.0164	MDL	1.01	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.695	J	0.0974	MDL	1.01	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX118 **Laboratory: LL**

EDD Filename: DX118_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX118 **Laboratory: LL**

EDD Filename: DX118_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	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX118 **Laboratory: LL**

EDD Filename: DX118_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX118

Method Blank Outlier Report

Lab Reporting Batch ID: DX118 **Laboratory: LL**

EDD Filename: DX118_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2160B372223	8/6/2011 10:23:00 PM	1,2,3,4,6,7,8-HPCDD	1.38 ng/Kg	DUP07-SA6-QC-072511
		1,2,3,4,6,7,8-HPCDF	0.0477 ng/Kg	SL-075-SA6-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0394 ng/Kg	SL-075-SA6-SB-9.0-10.0
		1,2,3,4,7,8-HxCDD	0.0588 ng/Kg	SL-082-SA6-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0339 ng/Kg	SL-082-SA6-SB-9.0-10.0
		1,2,3,6,7,8-HXCDD	0.0713 ng/Kg	SL-098-SA6-SB-2.0-3.0
		1,2,3,6,7,8-HXCDF	0.0222 ng/Kg	SL-103-SA6-SB-4.0-5.0
		1,2,3,7,8,9-HXCDD	0.0628 ng/Kg	SL-103-SA6-SB-9.0-10.0
		1,2,3,7,8,9-HXCDF	0.0278 ng/Kg	SL-124-SA6-SB-12.5-13.5
		1,2,3,7,8-PECDD	0.0613 ng/Kg	SL-124-SA6-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0293 ng/Kg	SL-289-SA6-SB-3.5-4.5
		2,3,4,6,7,8-HXCDF	0.0248 ng/Kg	SL-307-SA6-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0509 ng/Kg	SL-308-SA6-SS-0.0-0.5
		2,3,7,8-TCDD	0.0166 ng/Kg	SL-309-SA6-SS-0.0-0.5
		OCDD	8.21 ng/Kg	
		OCDF	0.131 ng/Kg	

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
DUP07-SA6-QC-072511(RES)	1,2,3,4,6,7,8-HPCDD	0.492 ng/Kg	0.492U ng/Kg
DUP07-SA6-QC-072511(RES)	1,2,3,4,6,7,8-HPCDF	0.0595 ng/Kg	0.0595U ng/Kg
DUP07-SA6-QC-072511(RES)	1,2,3,4,7,8,9-HPCDF	0.0469 ng/Kg	0.0469U ng/Kg
DUP07-SA6-QC-072511(RES)	1,2,3,4,7,8-HxCDD	0.0234 ng/Kg	0.0234U ng/Kg
DUP07-SA6-QC-072511(RES)	1,2,3,4,7,8-HXCDF	0.0407 ng/Kg	0.0407U ng/Kg
DUP07-SA6-QC-072511(RES)	1,2,3,6,7,8-HXCDD	0.0423 ng/Kg	0.0423U ng/Kg
DUP07-SA6-QC-072511(RES)	1,2,3,6,7,8-HXCDF	0.0343 ng/Kg	0.0343U ng/Kg
DUP07-SA6-QC-072511(RES)	1,2,3,7,8,9-HXCDD	0.0424 ng/Kg	0.0424U ng/Kg
DUP07-SA6-QC-072511(RES)	1,2,3,7,8,9-HXCDF	0.0546 ng/Kg	0.0546U ng/Kg
DUP07-SA6-QC-072511(RES)	1,2,3,7,8-PECDD	0.0555 ng/Kg	0.0555U ng/Kg
DUP07-SA6-QC-072511(RES)	1,2,3,7,8-PECDF	0.0518 ng/Kg	0.0518U ng/Kg
DUP07-SA6-QC-072511(RES)	2,3,4,6,7,8-HXCDF	0.0399 ng/Kg	0.0399U ng/Kg
DUP07-SA6-QC-072511(RES)	2,3,4,7,8-PECDF	0.0766 ng/Kg	0.0766U ng/Kg
DUP07-SA6-QC-072511(RES)	2,3,7,8-TCDD	0.0208 ng/Kg	0.0208U ng/Kg
DUP07-SA6-QC-072511(RES)	OCDD	2.82 ng/Kg	2.82U ng/Kg
DUP07-SA6-QC-072511(RES)	OCDF	0.138 ng/Kg	0.138U ng/Kg
SL-075-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.159 ng/Kg	0.159U ng/Kg
SL-075-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0625 ng/Kg	0.0625U ng/Kg
SL-075-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0986 ng/Kg	0.0986U ng/Kg
SL-075-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.304 ng/Kg	0.304U ng/Kg
SL-075-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0854 ng/Kg	0.0854U ng/Kg
SL-075-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.156 ng/Kg	0.156U ng/Kg
SL-075-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0677 ng/Kg	0.0677U ng/Kg
SL-075-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0399 ng/Kg	0.0399U ng/Kg
SL-075-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.109 ng/Kg	0.109U ng/Kg
SL-075-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.112 ng/Kg	0.112U ng/Kg
SL-075-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.273 ng/Kg	0.273U ng/Kg
SL-082-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.156 ng/Kg	0.156U ng/Kg
SL-082-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0806 ng/Kg	0.0806U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX118 **Laboratory: LL**

EDD Filename: DX118_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-082-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.283 ng/Kg	0.283U ng/Kg
SL-082-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.132 ng/Kg	0.132U ng/Kg
SL-082-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0451 ng/Kg	0.0451U ng/Kg
SL-082-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.114 ng/Kg	0.114U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.468 ng/Kg	0.468U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.123 ng/Kg	0.123U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0682 ng/Kg	0.0682U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0874 ng/Kg	0.0874U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0365 ng/Kg	0.0365U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0276 ng/Kg	0.0276U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0281 ng/Kg	0.0281U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0402 ng/Kg	0.0402U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0329 ng/Kg	0.0329U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0272 ng/Kg	0.0272U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0407 ng/Kg	0.0407U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	OCDD	1.95 ng/Kg	1.95U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	OCDF	0.204 ng/Kg	0.204U ng/Kg
SL-098-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.123 ng/Kg	0.123U ng/Kg
SL-098-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0427 ng/Kg	0.0427U ng/Kg
SL-098-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.228 ng/Kg	0.228U ng/Kg
SL-098-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0873 ng/Kg	0.0873U ng/Kg
SL-098-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.101 ng/Kg	0.101U ng/Kg
SL-098-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0362 ng/Kg	0.0362U ng/Kg
SL-098-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.0473 ng/Kg	0.0473U ng/Kg
SL-098-SA6-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0979 ng/Kg	0.0979U ng/Kg
SL-098-SA6-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0986 ng/Kg	0.0986U ng/Kg
SL-098-SA6-SB-2.0-3.0(RES)	2,3,7,8-TCDD	0.0125 ng/Kg	0.0125U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.456 ng/Kg	0.456U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0712 ng/Kg	0.0712U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0423 ng/Kg	0.0423U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0370 ng/Kg	0.0370U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0501 ng/Kg	0.0501U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0603 ng/Kg	0.0603U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0445 ng/Kg	0.0445U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0505 ng/Kg	0.0505U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0412 ng/Kg	0.0412U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0797 ng/Kg	0.0797U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.102 ng/Kg	0.102U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0316 ng/Kg	0.0316U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.106 ng/Kg	0.106U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX118 **Laboratory: LL**

EDD Filename: DX118_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-103-SA6-SB-4.0-5.0(RES)	OCDD	1.56 ng/Kg	1.56U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	OCDF	0.141 ng/Kg	0.141U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.573 ng/Kg	0.573U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.113 ng/Kg	0.113U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0460 ng/Kg	0.0460U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0660 ng/Kg	0.0660U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.122 ng/Kg	0.122U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0762 ng/Kg	0.0762U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.103 ng/Kg	0.103U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0825 ng/Kg	0.0825U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0983 ng/Kg	0.0983U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.178 ng/Kg	0.178U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0872 ng/Kg	0.0872U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.233 ng/Kg	0.233U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	OCDD	2.29 ng/Kg	2.29U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	OCDF	0.202 ng/Kg	0.202U ng/Kg
SL-124-SA6-SB-12.5-13.5(RES)	1,2,3,7,8-PECDD	0.215 ng/Kg	0.215U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.451 ng/Kg	0.451U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0839 ng/Kg	0.0839U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0922 ng/Kg	0.0922U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8-HxCDD	0.0402 ng/Kg	0.0402U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8-HXCDF	0.0655 ng/Kg	0.0655U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDD	0.0537 ng/Kg	0.0537U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDF	0.0395 ng/Kg	0.0395U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDD	0.0812 ng/Kg	0.0812U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDF	0.108 ng/Kg	0.108U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.0657 ng/Kg	0.0657U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	1,2,3,7,8-PECDF	0.0686 ng/Kg	0.0686U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	2,3,4,6,7,8-HXCDF	0.0510 ng/Kg	0.0510U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.0887 ng/Kg	0.0887U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	OCDD	1.18 ng/Kg	1.18U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	OCDF	0.223 ng/Kg	0.223U ng/Kg
SL-307-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0374 ng/Kg	0.0374U ng/Kg
SL-308-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.251 ng/Kg	0.251U ng/Kg
SL-308-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.244 ng/Kg	0.244U ng/Kg
SL-308-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.133 ng/Kg	0.133U ng/Kg
SL-308-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.218 ng/Kg	0.218U ng/Kg
SL-308-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0575 ng/Kg	0.0575U ng/Kg
SL-309-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0656 ng/Kg	0.0656U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX118 **Laboratory: LL**

EDD Filename: DX118_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-098-SA6-SB-2.0-3.0	DUP07-SA6-QC-072511			
MOISTURE	5.4	6.1	12		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-098-SA6-SB-2.0-3.0	DUP07-SA6-QC-072511			
1,2,3,7,8,9-HXCDF	0.0362	0.0546	41	50.00	No Qualifiers Applied
1,2,3,7,8-PECDD	0.0473	0.0555	16	50.00	
2,3,4,7,8-PECDF	0.0986	0.0766	25	50.00	
2,3,7,8-TCDD	0.0125	0.0208	50	50.00	
1,2,3,4,6,7,8-HPCDD	6.92	0.492	173	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,6,7,8-HPCDF	1.12	0.0595	180	50.00	
1,2,3,4,7,8,9-HPCDF	0.123	0.0469	90	50.00	
1,2,3,4,7,8-HxCDD	0.0427	0.0234	58	50.00	
1,2,3,4,7,8-HXCDF	0.175	0.0407	125	50.00	
1,2,3,6,7,8-HXCDD	0.228	0.0423	137	50.00	
1,2,3,6,7,8-HXCDF	0.0873	0.0343	87	50.00	
1,2,3,7,8,9-HXCDD	0.101	0.0424	82	50.00	
1,2,3,7,8-PECDF	0.333	0.0518	146	50.00	
2,3,4,6,7,8-HXCDF	0.0979	0.0399	84	50.00	
2,3,7,8-TCDF	0.0783	1.05 U	200	50.00	
OCDD	92.5	2.82	188	50.00	
OCDF	3.04	0.138	183	50.00	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX118 **Laboratory: LL**

EDD Filename: DX118_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP07-SA6-QC-072511	1,2,3,4,6,7,8-HPCDD	JB	0.492	5.24	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0595	5.24	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0469	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0234	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0407	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0423	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0343	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0424	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0546	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0555	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0518	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0399	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0766	5.24	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0208	1.05	PQL	ng/Kg	
	OCDD	JB	2.82	10.5	PQL	ng/Kg	
	OCDF	JB	0.138	10.5	PQL	ng/Kg	
SL-075-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	0.979	5.56	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.159	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0625	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0986	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.304	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0854	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.156	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0677	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0399	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.280	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.109	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.112	5.56	PQL	ng/Kg	
	OCDF	JB	2.20	11.1	PQL	ng/Kg	
SL-075-SA6-SB-9.0-10.0	1,2,3,4,7,8,9-HPCDF	JB	2.61	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.789	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.96	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.46	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.977	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.15	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.507	5.20	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.273	5.20	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.47	5.20	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.05	5.20	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.12	5.20	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.130	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.494	1.04	PQL	ng/Kg	
SL-082-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.39	5.12	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.156	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0806	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.523	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.283	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.125	5.12	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.132	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0451	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.77	5.12	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.150	5.12	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.114	5.12	PQL	ng/Kg	
	OCDF	JB	3.60	10.2	PQL	ng/Kg	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX118 **Laboratory: LL**

EDD Filename: DX118_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-082-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.468	5.43	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.123	5.43	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0682	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0874	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0365	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0276	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0281	5.43	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0402	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0329	5.43	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0272	5.43	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0407	5.43	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0202	1.09	PQL	ng/Kg	
	OCDD	JB	1.95	10.9	PQL	ng/Kg	
	OCDF	JB	0.204	10.9	PQL	ng/Kg	
SL-098-SA6-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDF	JB	1.12	5.13	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.123	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0427	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.175	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.228	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0873	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.101	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0362	5.13	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0473	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.333	5.13	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0979	5.13	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0986	5.13	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0125	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0783	1.03	PQL	ng/Kg	
	OCDF	JB	3.04	10.3	PQL	ng/Kg	
SL-103-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.456	5.34	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0712	5.34	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0423	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0370	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0501	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0603	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0445	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0505	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0412	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0797	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.102	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0316	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.106	5.34	PQL	ng/Kg	
	OCDD	JB	1.56	10.7	PQL	ng/Kg	
	OCDF	JB	0.141	10.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX118 **Laboratory: LL**

EDD Filename: DX118_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-103-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.573	5.44	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.113	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0460	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0660	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.122	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0762	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.103	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0825	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0983	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.178	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.239	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0872	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.233	5.44	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.115	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.119	1.09	PQL	ng/Kg	
	OCDD	JB	2.29	10.9	PQL	ng/Kg	
	OCDF	JB	0.202	10.9	PQL	ng/Kg	
SL-124-SA6-SB-12.5-13.5	1,2,3,4,7,8,9-HPCDF	JB	1.42	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.487	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.46	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.75	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.774	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.10	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.392	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.215	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.16	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.20	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.05	5.45	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.107	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.730	1.09	PQL	ng/Kg	
SL-124-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	3.05	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.67	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.98	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.11	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.98	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.484	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.549	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.15	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.86	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.866	5.28	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.228	1.06	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX118 **Laboratory: LL**

EDD Filename: DX118_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-289-SA6-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JB	0.451	5.18	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0839	5.18	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0922	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0402	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0655	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0537	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0395	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0812	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.108	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0657	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0686	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0510	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0887	5.18	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0168	1.04	PQL	ng/Kg	
	OCDD	JB	1.18	10.4	PQL	ng/Kg	
	OCDF	JB	0.223	10.4	PQL	ng/Kg	
SL-307-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.14	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.718	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.78	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.43	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.37	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.58	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.647	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.462	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.39	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	3.41	5.02	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0374	1.00	PQL	ng/Kg	
SL-308-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.96	5.08	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.360	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.251	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.284	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.814	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.262	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.881	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.289	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.244	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.133	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.278	5.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.218	5.08	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0575	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.108	1.02	PQL	ng/Kg	
SL-309-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.569	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.568	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.13	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.65	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.597	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.33	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.363	5.04	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.405	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.06	5.04	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.668	5.04	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.59	5.04	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0656	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.695	1.01	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX119

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-Jul-2011	SL-236-SA6-SS-0.0-0.5	6355082	N	METHOD	1613B	III
25-Jul-2011	SL-235-SA6-SS-0.0-0.5	6355081	N	METHOD	1613B	III
25-Jul-2011	SL-255-SA6-SS-0.0-0.5	6355086	N	METHOD	1613B	III
25-Jul-2011	SL-256-SA6-SS-0.0-0.5	6355087	N	METHOD	1613B	III
25-Jul-2011	SL-193-SA6-SS-0.0-0.5	6355080	N	METHOD	1613B	III
25-Jul-2011	SL-245-SA6-SS-0.0-0.5	6355083	N	METHOD	1613B	III
25-Jul-2011	SL-254-SA6-SS-0.0-0.5	6355085	N	METHOD	1613B	III
25-Jul-2011	SL-253-SA6-SS-0.0-0.5	6355084	N	METHOD	1613B	III
25-Jul-2011	SL-268-SA6-SS-0.0-0.5	6355088	N	METHOD	1613B	III
25-Jul-2011	SL-192-SA6-SS-0.0-0.5	6355079	N	METHOD	1613B	III
25-Jul-2011	SL-190-SA6-SS-0.0-0.5	6355078	N	METHOD	1613B	III
26-Jul-2011	SL-206-SA6-SS-0.0-0.5	6356792	N	METHOD	1613B	III
26-Jul-2011	SL-213-SA6-SS-0.0-0.5	6356793	N	METHOD	1613B	III
26-Jul-2011	SL-217-SA6-SS-0.0-0.5	6356794	N	METHOD	1613B	III
26-Jul-2011	SL-204-SA6-SS-0.0-0.5	6356788	N	METHOD	1613B	III
26-Jul-2011	SL-319-SA6-SS-0.0-0.5	6356796	N	METHOD	1613B	III
26-Jul-2011	SL-317-SA6-SS-0.0-0.5	6356795	N	METHOD	1613B	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5	6356789	N	METHOD	1613B	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MS	6356790	MS	METHOD	1613B	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MSD	6356791	MSD	METHOD	1613B	III
26-Jul-2011	SL-013-SA6-SS-0.0-0.5	6356787	N	METHOD	1613B	III
26-Jul-2011	SL-012-SA6-SS-0.0-0.5	6356786	N	METHOD	1613B	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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX119 Laboratory: LL

EDD Filename: DX119_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-012-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 3:02:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.16	JB	0.0219	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.242	JB	0.0273	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.258	JB	0.0502	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	1.59	JB	0.0565	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.41	JB	0.0511	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.390	JB	0.0552	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.787	JB	0.0462	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.100	JB	0.0509	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.411	JBQ	0.0538	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.10	JB	0.0635	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.353	JB	0.0520	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.434	JB	0.0617	MDL	5.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.148	JB	0.0238	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.196	J	0.0827	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	8.86	JB	0.0282	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-013-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 2:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.378	JB	0.0337	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.541	JB	0.0539	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.94	JB	0.0663	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.73	JB	0.0525	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.664	JB	0.0606	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.07	JB	0.0503	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.397	JB	0.0451	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	4.08	JB	0.0643	MDL	4.90	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.748	JB	0.0587	MDL	4.90	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.76	JB	0.0589	MDL	4.90	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.454	J	0.0808	MDL	0.980	PQL	ng/Kg	J	Z
OCDF	8.65	JB	0.0346	MDL	9.80	PQL	ng/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: DX119 **Laboratory:** LL

EDD Filename: DX119_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-190-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 3:51:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.48	JB	0.0753	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.875	JB	0.0572	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.10	JB	0.0576	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.21	JB	0.0887	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.73	JB	0.0650	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.446	JB	0.103	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.643	JB	0.102	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.32	JB	0.0908	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.85	JB	0.115	MDL	4.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.126	JB	0.0361	MDL	0.989	PQL	ng/Kg	U	B

Sample ID: SL-192-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 3:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.25	JB	0.0269	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.241	JB	0.0337	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.204	JB	0.0371	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.353	JB	0.0346	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.758	JB	0.0377	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.271	JB	0.0312	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.543	JB	0.0365	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.131	JBQ	0.0358	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.188	JB	0.0340	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	4.11	JB	0.0396	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.234	JB	0.0289	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.418	JB	0.0374	MDL	5.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0371	JBQ	0.0209	MDL	1.01	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.245	J	0.0494	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	6.11	JB	0.0207	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: SL-193-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 10:56:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.72	B	0.0351	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	1.73	JB	0.0142	MDL	4.92	PQL	ng/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: DX119 Laboratory: LL

EDD Filename: DX119_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-193-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 10:56:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.154	JBQ	0.0244	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.100	JB	0.0379	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.167	JB	0.0277	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.500	JB	0.0377	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.146	JB	0.0245	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.338	JB	0.0349	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.113	JB	0.0245	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.104	JB	0.0239	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.433	JB	0.0198	MDL	4.92	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.147	JBQ	0.0245	MDL	4.92	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.198	JB	0.0211	MDL	4.92	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.165	J	0.0360	MDL	0.984	PQL	ng/Kg	J	Z
OCDF	2.87	JB	0.0218	MDL	9.84	PQL	ng/Kg	J	Z

Sample ID: SL-204-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.67	JB	0.0568	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.26	JB	0.0421	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.02	JB	0.0486	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.84	JB	0.0431	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.18	JB	0.0393	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.31	JB	0.0377	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.397	JB	0.0541	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.557	JB	0.0567	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.03	JB	0.0367	MDL	4.85	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.41	JB	0.0452	MDL	4.85	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.636	JB	0.0389	MDL	4.85	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0977	JBQ	0.0262	MDL	0.970	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.365	J	0.0545	MDL	0.970	PQL	ng/Kg	J	Z

Sample ID: SL-205-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 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
1,2,3,4,7,8,9-HPCDF	1.45	JB	0.0473	MDL	4.95	PQL	ng/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: DX119 **Laboratory:** LL

EDD Filename: DX119_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-205-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 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
1,2,3,4,7,8-HxCDD	1.29	JB	0.0346	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.84	JB	0.0366	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.36	JB	0.0736	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.73	JB	0.0329	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.953	JBQ	0.0808	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.547	JB	0.0763	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.73	JB	0.0720	MDL	4.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.111	JB	0.0276	MDL	0.990	PQL	ng/Kg	U	B
OCDD	744	B	0.0405	MDL	9.90	PQL	ng/Kg	J	Q, Q

Sample ID: SL-206-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 8:18:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.50	JB	0.0278	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.346	JB	0.0318	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.323	JB	0.0416	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.622	JB	0.0358	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.13	JB	0.0428	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.322	JB	0.0342	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.766	JB	0.0416	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.335	JB	0.0337	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.277	JBQ	0.0344	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.05	JB	0.0367	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.290	JB	0.0308	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.758	JB	0.0369	MDL	5.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.162	JBQ	0.0194	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.422	JQ	0.0982	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	8.96	JB	0.0281	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-213-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 8:38:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.61	JB	0.0192	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.145	JB	0.0265	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0893	JB	0.0333	MDL	4.98	PQL	ng/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: DX119 **Laboratory: LL**

EDD Filename: DX119_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-213-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 8:38:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.168	JBQ	0.0234	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.509	JB	0.0338	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.112	JBQ	0.0203	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.404	JB	0.0321	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.231	JB	0.0227	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.117	JBQ	0.0199	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.185	JBQ	0.0156	MDL	4.98	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.113	JB	0.0218	MDL	4.98	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.171	JBQ	0.0155	MDL	4.98	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0591	JBQ	0.0153	MDL	0.996	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0682	J	0.0277	MDL	0.996	PQL	ng/Kg	J	Z
OCDF	4.26	JB	0.0260	MDL	9.96	PQL	ng/Kg	J	Z

Sample ID: SL-217-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.20	JB	0.0159	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.128	JB	0.0225	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0837	JB	0.0340	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.150	JBQ	0.0309	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.312	JB	0.0347	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0994	JB	0.0267	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.301	JB	0.0346	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.212	JBQ	0.0304	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0978	JBQ	0.0251	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.310	JB	0.0208	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.129	JB	0.0253	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.119	JB	0.0216	MDL	5.17	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.104	J	0.0404	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	5.29	JB	0.0330	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-235-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.33	B	0.0188	MDL	2.53	PQL	ng/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: DX119 **Laboratory:** LL

EDD Filename: DX119_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-235-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.712	JB	0.00690	MDL	2.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0839	JBQ	0.0134	MDL	2.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0681	JB	0.0208	MDL	2.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0724	JBQ	0.0149	MDL	2.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.222	JB	0.0214	MDL	2.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0682	JBQ	0.0127	MDL	2.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.231	JB	0.0192	MDL	2.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.115	JB	0.0157	MDL	2.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0711	JBQ	0.0160	MDL	2.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.162	JB	0.00963	MDL	2.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0928	JB	0.0124	MDL	2.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.183	JBQ	0.0104	MDL	2.53	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0827	JQ	0.0174	MDL	0.506	PQL	ng/Kg	J	Z
OCDD	40.0	B	0.0114	MDL	5.06	PQL	ng/Kg	U	B
OCDF	2.00	JB	0.0156	MDL	5.06	PQL	ng/Kg	J	Z

Sample ID: SL-236-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 7:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.45	B	0.0215	MDL	2.52	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.970	JB	0.00838	MDL	2.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.105	JBQ	0.0171	MDL	2.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0752	JBQ	0.0239	MDL	2.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0877	JBQ	0.0164	MDL	2.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.234	JB	0.0249	MDL	2.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0886	JB	0.0133	MDL	2.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.215	JB	0.0228	MDL	2.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0614	JBQ	0.0182	MDL	2.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0916	JBQ	0.0154	MDL	2.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.197	JBQ	0.0122	MDL	2.52	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.110	JBQ	0.0149	MDL	2.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.221	JBQ	0.0138	MDL	2.52	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0949	JQ	0.0187	MDL	0.503	PQL	ng/Kg	J	Z
OCDF	2.76	JB	0.0170	MDL	5.03	PQL	ng/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: DX119 **Laboratory:** LL

EDD Filename: DX119_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-245-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 11:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.40	B	0.0155	MDL	2.49	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	1.44	JB	0.00525	MDL	2.49	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.143	JBQ	0.0135	MDL	2.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0838	JBQ	0.0185	MDL	2.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.171	JB	0.0181	MDL	2.49	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.374	JB	0.0190	MDL	2.49	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.162	JB	0.0141	MDL	2.49	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.267	JB	0.0173	MDL	2.49	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.100	JB	0.0219	MDL	2.49	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.109	JBQ	0.0137	MDL	2.49	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.308	JB	0.0103	MDL	2.49	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.166	JB	0.0164	MDL	2.49	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.206	JB	0.0121	MDL	2.49	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0273	JB	0.0110	MDL	0.498	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.151	J	0.0187	MDL	0.498	PQL	ng/Kg	J	Z
OCDD	23.3	B	0.0131	MDL	4.98	PQL	ng/Kg	U	B
OCDF	2.63	JB	0.0157	MDL	4.98	PQL	ng/Kg	J	Z

Sample ID: SL-253-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 2:21:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.84	B	0.0288	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	2.40	JB	0.0103	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.255	JB	0.0232	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.171	JBQ	0.0381	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.293	JBQ	0.0325	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.587	JB	0.0398	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.252	JB	0.0256	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.342	JB	0.0343	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.218	JB	0.0403	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.267	JB	0.0261	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.371	JB	0.0161	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.285	JB	0.0300	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.322	JBQ	0.0177	MDL	5.03	PQL	ng/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: DX119 **Laboratory: LL**

EDD Filename: DX119_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-253-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 2:21:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.0840	JB	0.0209	MDL	1.01	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.200	J	0.0263	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	33.9	B	0.0216	MDL	10.1	PQL	ng/Kg	U	B
OCDF	3.99	JB	0.0315	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: **SL-254-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 1:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.10	JB	0.0179	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.237	JB	0.0235	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.174	JBQ	0.0498	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.296	JBQ	0.0338	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.819	JB	0.0493	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.336	JB	0.0320	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.655	JBQ	0.0462	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.200	JB	0.0356	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.168	JBQ	0.0304	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.786	JB	0.0279	MDL	4.92	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.244	JB	0.0336	MDL	4.92	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.503	JB	0.0285	MDL	4.92	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0277	JB	0.0228	MDL	0.984	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.376	J	0.0523	MDL	0.984	PQL	ng/Kg	J	Z
OCDF	5.97	JB	0.0207	MDL	9.84	PQL	ng/Kg	J	Z

Sample ID: **SL-255-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 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
1,2,3,4,6,7,8-HPCDD	4.01	JB	0.0382	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	1.25	JB	0.0139	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.145	JBQ	0.0306	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.118	JB	0.0422	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.222	JB	0.0315	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.284	JB	0.0445	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.119	JB	0.0252	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.218	JBQ	0.0385	MDL	5.03	PQL	ng/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: DX119 Laboratory: LL

EDD Filename: DX119_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-255-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 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
1,2,3,7,8,9-HXCDF	0.0981	JB	0.0370	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.107	JBQ	0.0275	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.464	JBQ	0.0292	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.115	JB	0.0270	MDL	5.03	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.157	JB	0.0342	MDL	5.03	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0338	JBQ	0.0236	MDL	1.01	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.100	JQ	0.0718	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	34.6	B	0.0264	MDL	10.1	PQL	ng/Kg	U	B
OCDF	3.12	JB	0.0365	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: SL-256-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 10:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.90	JB	0.0104	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.233	JB	0.0250	MDL	4.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0996	JB	0.0378	MDL	4.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.212	JB	0.0269	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.397	JB	0.0368	MDL	4.85	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.208	JBQ	0.0218	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.304	JB	0.0379	MDL	4.85	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.146	JBQ	0.0338	MDL	4.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0900	JB	0.0305	MDL	4.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.749	JB	0.0195	MDL	4.85	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.183	JB	0.0244	MDL	4.85	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.254	JB	0.0225	MDL	4.85	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.162	J	0.0354	MDL	0.969	PQL	ng/Kg	J	Z
OCDF	3.81	JB	0.0283	MDL	9.69	PQL	ng/Kg	J	Z

Sample ID: SL-268-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 2:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.924	JB	0.0306	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.912	JB	0.0457	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.83	JB	0.0478	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.61	JB	0.0468	MDL	4.99	PQL	ng/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: DX119 **Laboratory: LL**

EDD Filename: DX119_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-268-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 2:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	1.51	JB	0.0451	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.24	JB	0.0446	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.538	JB	0.0448	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.692	JB	0.0679	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.73	JB	0.0600	MDL	4.99	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.74	JB	0.0429	MDL	4.99	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.89	JB	0.0544	MDL	4.99	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.129	JB	0.0258	MDL	0.999	PQL	ng/Kg	U	B

Sample ID: SL-317-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	3.00	JB	0.0527	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.08	JB	0.0729	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.39	JB	0.0612	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.540	JB	0.0887	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.24	JB	0.0687	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.18	JB	0.0572	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	4.29	JB	0.0721	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.42	JB	0.0629	MDL	4.96	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.161	JBQ	0.0262	MDL	0.991	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.671	J	0.129	MDL	0.991	PQL	ng/Kg	J	Z

Sample ID: SL-319-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 10:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.85	JB	0.0520	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.28	JB	0.0542	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.02	JB	0.0673	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.69	JB	0.0492	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.06	JB	0.0726	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.43	JB	0.0806	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.73	JB	0.0658	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.20	JB	0.0673	MDL	4.96	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.279	JB	0.0404	MDL	0.992	PQL	ng/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: DX119 Laboratory: LL

EDD Filename: DX119_v1 eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA		
Method:	1613B	*Matrix:*	SO

* 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: DX119 **Laboratory: LL**

EDD Filename: DX119_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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	Laboratory Triplicate 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: DX119 **Laboratory: LL**

EDD Filename: DX119_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	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX119 **Laboratory: LL**

EDD Filename: DX119_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX119

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX119 **Laboratory: LL**

EDD Filename: DX119_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-205-SA6-SS-0.0-0.5MSD (SL-205-SA6-SS-0.0-0.5)	OCDD	-	-34	40.00-135.00	28 (20.00)	OCDD	J (all detects) R (all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DX119 **Laboratory: LL**

EDD Filename: DX119_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2170B371618	8/9/2011 4:18:00 PM	1,2,3,4,6,7,8-HPCDD	1.47 ng/Kg	SL-012-SA6-SS-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.0539 ng/Kg	SL-013-SA6-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0538 ng/Kg	SL-190-SA6-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0904 ng/Kg	SL-192-SA6-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0378 ng/Kg	SL-193-SA6-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0842 ng/Kg	SL-204-SA6-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0311 ng/Kg	SL-205-SA6-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0945 ng/Kg	SL-206-SA6-SS-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.0531 ng/Kg	SL-213-SA6-SS-0.0-0.5
		1,2,3,7,8-PECDD	0.0430 ng/Kg	SL-217-SA6-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0533 ng/Kg	SL-235-SA6-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0287 ng/Kg	SL-236-SA6-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0573 ng/Kg	SL-245-SA6-SS-0.0-0.5
		2,3,7,8-TCDD	0.0271 ng/Kg	SL-253-SA6-SS-0.0-0.5
		OCDD	8.90 ng/Kg	SL-254-SA6-SS-0.0-0.5
		OCDF	0.140 ng/Kg	SL-255-SA6-SS-0.0-0.5
				SL-256-SA6-SS-0.0-0.5
				SL-268-SA6-SS-0.0-0.5
				SL-317-SA6-SS-0.0-0.5
				SL-319-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-012-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.242 ng/Kg	0.242U ng/Kg
SL-012-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.258 ng/Kg	0.258U ng/Kg
SL-012-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.100 ng/Kg	0.100U ng/Kg
SL-190-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.126 ng/Kg	0.126U ng/Kg
SL-192-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.241 ng/Kg	0.241U ng/Kg
SL-192-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.204 ng/Kg	0.204U ng/Kg
SL-192-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.131 ng/Kg	0.131U ng/Kg
SL-192-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.188 ng/Kg	0.188U ng/Kg
SL-192-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0371 ng/Kg	0.0371U ng/Kg
SL-193-SA6-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	5.72 ng/Kg	5.72U ng/Kg
SL-193-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.154 ng/Kg	0.154U ng/Kg
SL-193-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.100 ng/Kg	0.100U ng/Kg
SL-193-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.167 ng/Kg	0.167U ng/Kg
SL-193-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.146 ng/Kg	0.146U ng/Kg
SL-193-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.338 ng/Kg	0.338U ng/Kg
SL-193-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.113 ng/Kg	0.113U ng/Kg
SL-193-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.104 ng/Kg	0.104U ng/Kg
SL-193-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.198 ng/Kg	0.198U ng/Kg
SL-204-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0977 ng/Kg	0.0977U ng/Kg
SL-205-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.111 ng/Kg	0.111U ng/Kg
SL-206-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.323 ng/Kg	0.323U ng/Kg
SL-213-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.145 ng/Kg	0.145U ng/Kg
SL-213-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0893 ng/Kg	0.0893U ng/Kg
SL-213-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.168 ng/Kg	0.168U ng/Kg
SL-213-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.112 ng/Kg	0.112U ng/Kg
SL-213-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.404 ng/Kg	0.404U ng/Kg
SL-213-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.231 ng/Kg	0.231U ng/Kg

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

Method Blank Outlier Report

Lab Reporting Batch ID: DX119 **Laboratory: LL**

EDD Filename: DX119_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-213-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.117 ng/Kg	0.117U ng/Kg
SL-213-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.185 ng/Kg	0.185U ng/Kg
SL-213-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.113 ng/Kg	0.113U ng/Kg
SL-213-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.171 ng/Kg	0.171U ng/Kg
SL-213-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0591 ng/Kg	0.0591U ng/Kg
SL-217-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.128 ng/Kg	0.128U ng/Kg
SL-217-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0837 ng/Kg	0.0837U ng/Kg
SL-217-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.150 ng/Kg	0.150U ng/Kg
SL-217-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.312 ng/Kg	0.312U ng/Kg
SL-217-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0994 ng/Kg	0.0994U ng/Kg
SL-217-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.301 ng/Kg	0.301U ng/Kg
SL-217-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.212 ng/Kg	0.212U ng/Kg
SL-217-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0978 ng/Kg	0.0978U ng/Kg
SL-217-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.129 ng/Kg	0.129U ng/Kg
SL-217-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.119 ng/Kg	0.119U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	3.33 ng/Kg	3.33U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0839 ng/Kg	0.0839U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0681 ng/Kg	0.0681U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0724 ng/Kg	0.0724U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.222 ng/Kg	0.222U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0682 ng/Kg	0.0682U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.231 ng/Kg	0.231U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.115 ng/Kg	0.115U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0711 ng/Kg	0.0711U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.162 ng/Kg	0.162U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0928 ng/Kg	0.0928U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.183 ng/Kg	0.183U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	OCDD	40.0 ng/Kg	40.0U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	4.45 ng/Kg	4.45U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.105 ng/Kg	0.105U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0752 ng/Kg	0.0752U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0877 ng/Kg	0.0877U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.234 ng/Kg	0.234U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0886 ng/Kg	0.0886U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.215 ng/Kg	0.215U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0614 ng/Kg	0.0614U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0916 ng/Kg	0.0916U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.197 ng/Kg	0.197U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.221 ng/Kg	0.221U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX119 **Laboratory: LL**

EDD Filename: DX119_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-245-SA6-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	3.40 ng/Kg	3.40U ng/Kg
SL-245-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.143 ng/Kg	0.143U ng/Kg
SL-245-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0838 ng/Kg	0.0838U ng/Kg
SL-245-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.171 ng/Kg	0.171U ng/Kg
SL-245-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.374 ng/Kg	0.374U ng/Kg
SL-245-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.267 ng/Kg	0.267U ng/Kg
SL-245-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.100 ng/Kg	0.100U ng/Kg
SL-245-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.109 ng/Kg	0.109U ng/Kg
SL-245-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.206 ng/Kg	0.206U ng/Kg
SL-245-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0273 ng/Kg	0.0273U ng/Kg
SL-245-SA6-SS-0.0-0.5(RES)	OCDD	23.3 ng/Kg	23.3U ng/Kg
SL-253-SA6-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	5.84 ng/Kg	5.84U ng/Kg
SL-253-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.255 ng/Kg	0.255U ng/Kg
SL-253-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.171 ng/Kg	0.171U ng/Kg
SL-253-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.342 ng/Kg	0.342U ng/Kg
SL-253-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.218 ng/Kg	0.218U ng/Kg
SL-253-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0840 ng/Kg	0.0840U ng/Kg
SL-253-SA6-SS-0.0-0.5(RES)	OCDD	33.9 ng/Kg	33.9U ng/Kg
SL-254-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.237 ng/Kg	0.237U ng/Kg
SL-254-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.174 ng/Kg	0.174U ng/Kg
SL-254-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.200 ng/Kg	0.200U ng/Kg
SL-254-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.168 ng/Kg	0.168U ng/Kg
SL-254-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0277 ng/Kg	0.0277U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	4.01 ng/Kg	4.01U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.145 ng/Kg	0.145U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.118 ng/Kg	0.118U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.284 ng/Kg	0.284U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.119 ng/Kg	0.119U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.218 ng/Kg	0.218U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0981 ng/Kg	0.0981U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.107 ng/Kg	0.107U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.115 ng/Kg	0.115U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.157 ng/Kg	0.157U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0338 ng/Kg	0.0338U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	OCDD	34.6 ng/Kg	34.6U ng/Kg
SL-256-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.233 ng/Kg	0.233U ng/Kg
SL-256-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0996 ng/Kg	0.0996U ng/Kg
SL-256-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.397 ng/Kg	0.397U ng/Kg
SL-256-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.304 ng/Kg	0.304U ng/Kg
SL-256-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.146 ng/Kg	0.146U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX119 Laboratory: LL

EDD Filename: DX119_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-256-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0900 ng/Kg	0.0900U ng/Kg
SL-256-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.254 ng/Kg	0.254U ng/Kg
SL-268-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.129 ng/Kg	0.129U ng/Kg

Reporting Limit Outliers

Lab Reporting Batch ID: DX119 **Laboratory: LL**

EDD Filename: DX119_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.16	5.10	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.242	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.258	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.59	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.41	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.390	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.787	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.100	5.10	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.411	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.10	5.10	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.353	5.10	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.434	5.10	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.148	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.196	1.02	PQL	ng/Kg	
	OCDF	JB	8.86	10.2	PQL	ng/Kg	
SL-013-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.378	4.90	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.541	4.90	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.94	4.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.73	4.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.664	4.90	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.07	4.90	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.397	4.90	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	4.08	4.90	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.748	4.90	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.76	4.90	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.454	0.980	PQL	ng/Kg	
	OCDF	JB	8.65	9.80	PQL	ng/Kg	
SL-190-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.48	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.875	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.10	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.21	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.73	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.446	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.643	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.32	4.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.85	4.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.126	0.989	PQL	ng/Kg	
SL-192-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.25	5.03	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.241	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.204	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.353	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.758	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.271	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.543	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.131	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.188	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	4.11	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.234	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.418	5.03	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0371	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.245	1.01	PQL	ng/Kg	
	OCDF	JB	6.11	10.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX119 **Laboratory: LL**

EDD Filename: DX119_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-193-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.73	4.92	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.154	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.100	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.167	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.500	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.146	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.338	4.92	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.113	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.104	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.433	4.92	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.147	4.92	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.198	4.92	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.165	0.984	PQL	ng/Kg	
	OCDF	JB	2.87	9.84	PQL	ng/Kg	
SL-204-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.67	4.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.26	4.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.02	4.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.84	4.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.18	4.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.31	4.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.397	4.85	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.557	4.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.03	4.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.41	4.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.636	4.85	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0977	0.970	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.365	0.970	PQL	ng/Kg	
SL-205-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.45	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.29	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.84	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.36	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.73	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.953	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.547	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.73	4.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.111	0.990	PQL	ng/Kg	
SL-206-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.50	5.15	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.346	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.323	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.622	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.13	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.322	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.766	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.335	5.15	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.277	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.05	5.15	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.290	5.15	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.758	5.15	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.162	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.422	1.03	PQL	ng/Kg	
	OCDF	JB	8.96	10.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX119 **Laboratory: LL**

EDD Filename: DX119_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-213-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.61	4.98	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.145	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0893	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.168	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.509	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.112	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.404	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.231	4.98	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.117	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.185	4.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.113	4.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.171	4.98	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0591	0.996	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0682	0.996	PQL	ng/Kg	
	OCDF	JB	4.26	9.96	PQL	ng/Kg	
SL-217-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.20	5.17	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.128	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0837	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.150	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.312	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0994	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.301	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.212	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0978	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.310	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.129	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.119	5.17	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.104	1.03	PQL	ng/Kg	
	OCDF	JB	5.29	10.3	PQL	ng/Kg	
SL-235-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	0.712	2.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0839	2.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0681	2.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0724	2.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.222	2.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0682	2.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.231	2.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.115	2.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0711	2.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.162	2.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0928	2.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.183	2.53	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0827	0.506	PQL	ng/Kg	
	OCDF	JB	2.00	5.06	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX119 **Laboratory: LL**

EDD Filename: DX119_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-236-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	0.970	2.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.105	2.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0752	2.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0877	2.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.234	2.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0886	2.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.215	2.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0614	2.52	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0916	2.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.197	2.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.110	2.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.221	2.52	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0949	0.503	PQL	ng/Kg	
	OCDF	JB	2.76	5.03	PQL	ng/Kg	
SL-245-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.44	2.49	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.143	2.49	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0838	2.49	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.171	2.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.374	2.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.162	2.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.267	2.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.100	2.49	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.109	2.49	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.308	2.49	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.166	2.49	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.206	2.49	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0273	0.498	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.151	0.498	PQL	ng/Kg	
	OCDF	JB	2.63	4.98	PQL	ng/Kg	
SL-253-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.40	5.03	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.255	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.171	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.293	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.587	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.252	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.342	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.218	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.267	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.371	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.285	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.322	5.03	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0840	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.200	1.01	PQL	ng/Kg	
	OCDF	JB	3.99	10.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX119 **Laboratory: LL**

EDD Filename: DX119_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-254-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.10	4.92	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.237	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.174	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.296	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.819	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.336	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.655	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.200	4.92	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.168	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.786	4.92	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.244	4.92	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.503	4.92	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0277	0.984	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.376	0.984	PQL	ng/Kg	
	OCDF	JB	5.97	9.84	PQL	ng/Kg	
SL-255-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.01	5.03	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.25	5.03	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.145	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.118	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.222	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.284	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.119	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.218	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0981	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.107	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.464	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.115	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.157	5.03	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0338	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.100	1.01	PQL	ng/Kg	
	OCDF	JB	3.12	10.1	PQL	ng/Kg	
SL-256-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.90	4.85	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.233	4.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0996	4.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.212	4.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.397	4.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.208	4.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.304	4.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.146	4.85	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0900	4.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.749	4.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.183	4.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.254	4.85	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.162	0.969	PQL	ng/Kg	
	OCDF	JB	3.81	9.69	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX119 **Laboratory: LL**

EDD Filename: DX119_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-268-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.924	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.912	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.83	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.61	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.51	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.24	4.99	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.538	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.692	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.73	4.99	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.74	4.99	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.89	4.99	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.129	0.999	PQL	ng/Kg	
SL-317-SA6-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	JB	3.00	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.08	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.39	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.540	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.24	4.96	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	2.18	4.96	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	4.29	4.96	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.42	4.96	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.161	0.991	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.671	0.991	PQL	ng/Kg	
SL-319-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.85	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.28	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.02	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.69	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.06	4.96	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.43	4.96	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.73	4.96	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	3.20	4.96	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.279	0.992	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX120

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Jul-2011	SL-077-SA6-SB-4.0-5.0	6356798	N	METHOD	1613B	III
26-Jul-2011	SL-077-SA6-SB-9.0-10.0	6356799	N	METHOD	1613B	III
26-Jul-2011	SL-080-SA6-SB-3.5-4.5	6356800	N	METHOD	1613B	III
26-Jul-2011	EB-SA6-SS-072611	6356801	EB	METHOD	1613B	III
26-Jul-2011	SL-311-SA6-SS-0.0-0.5	6356802	N	METHOD	1613B	III
26-Jul-2011	DUP08-SA6-QC-072611	6356797	FD	METHOD	1613B	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358402	N	METHOD	1613B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358398	N	METHOD	1613B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358399	MS	METHOD	1613B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358400	MSD	METHOD	1613B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	P358398M371933	MSD	METHOD	1613B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	P358398R371837	MS	METHOD	1613B	III
27-Jul-2011	DUP09-SA6-QC-072711	6358403	FD	METHOD	1613B	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358404	N	METHOD	1613B	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358405	N	METHOD	1613B	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358401	N	METHOD	1613B	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358407	N	METHOD	1613B	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358408	N	METHOD	1613B	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358406	N	METHOD	1613B	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358409	N	METHOD	1613B	III
27-Jul-2011	EB-SA6-SB-072711	6358412	EB	METHOD	1613B	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358410	N	METHOD	1613B	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358411	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: AQ**

Sample ID: EB-SA6-SB-072711 *Collected:* 7/27/2011 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
1,2,3,4,6,7,8-HPCDD	2.95	JB	0.566	MDL	9.80	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.567	JBQ	0.215	MDL	9.80	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.369	JBQ	0.346	MDL	9.80	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.225	JBQ	0.210	MDL	9.80	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.334	JBQ	0.216	MDL	9.80	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.679	JBQ	0.360	MDL	9.80	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.463	JB	0.213	MDL	9.80	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.377	JQ	0.292	MDL	9.80	PQL	pg/L	J	Z
2,3,4,7,8-PECDF	0.611	JBQ	0.254	MDL	9.80	PQL	pg/L	U	B
2,3,7,8-TCDF	0.571	JQ	0.534	MDL	1.96	PQL	pg/L	J	Z
OCDD	5.10	JBQ	0.418	MDL	19.6	PQL	pg/L	U	B
OCDF	0.922	JB	0.542	MDL	19.6	PQL	pg/L	U	B

Sample ID: EB-SA6-SS-072611 *Collected:* 7/26/2011 11:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.71	JBQ	0.646	MDL	9.94	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.69	JB	0.317	MDL	9.94	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.449	JBQ	0.335	MDL	9.94	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.484	JB	0.423	MDL	9.94	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.392	JBQ	0.308	MDL	9.94	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.576	JBQ	0.428	MDL	9.94	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	1.09	JBQ	0.319	MDL	9.94	PQL	pg/L	U	B
1,2,3,7,8-PECDF	1.65	JQ	0.373	MDL	9.94	PQL	pg/L	J	Z
2,3,4,6,7,8-HXCDF	0.368	JBQ	0.287	MDL	9.94	PQL	pg/L	U	B
2,3,4,7,8-PECDF	1.95	JBQ	0.334	MDL	9.94	PQL	pg/L	U	B
OCDD	7.99	JB	0.446	MDL	19.9	PQL	pg/L	U	B
OCDF	1.26	JBQ	0.727	MDL	19.9	PQL	pg/L	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: DX120 **Laboratory:** LL

EDD Filename: DX120_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: DUP08-SA6-QC-072611 ***Collected:*** 7/26/2011 12:14:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.49	JB	0.0474	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.737	JB	0.0239	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.66	JB	0.0249	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.69	JB	0.0249	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.822	JBQ	0.0427	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.363	JB	0.0350	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.80	JB	0.0371	MDL	5.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0680	JB	0.0193	MDL	1.02	PQL	ng/Kg	U	B

Sample ID: DUP09-SA6-QC-072711 ***Collected:*** 7/27/2011 8:28:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.92	JB	0.0370	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.50	JB	0.0298	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.79	JB	0.0383	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.63	JB	0.0283	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.819	JB	0.0345	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.24	JB	0.0421	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.90	JB	0.0482	MDL	4.93	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	2.84	JB	0.0318	MDL	4.93	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	1.32	B	0.0202	MDL	0.986	PQL	ng/Kg	J	FD

Sample ID: SL-009-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 8:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.83	JB	0.0305	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.58	JB	0.0282	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.33	JB	0.0351	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.42	JB	0.0267	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.876	JB	0.0345	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.32	JB	0.0449	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	10.3	B	0.0513	MDL	5.08	PQL	ng/Kg	J	FD
2,3,4,6,7,8-HXCDF	3.16	JB	0.0326	MDL	5.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	6.67	B	0.0211	MDL	1.02	PQL	ng/Kg	J	FD
OCDF	80.5	B	0.0230	MDL	10.2	PQL	ng/Kg	J	Q, 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: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-017-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 9:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	4.75	JB	0.0824	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	4.18	JB	0.0557	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.17	JB	0.0596	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.18	JB	0.0588	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.36	JB	0.0388	MDL	5.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.326	JB	0.0244	MDL	1.00	PQL	ng/Kg	J	Z
OCDD	21800	EB	0.188	MDL	10.0	PQL	ng/Kg	J	*XI

Sample ID: SL-028-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 7:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.52	JB	0.0345	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.77	JB	0.0342	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.81	JB	0.0319	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.964	JB	0.0519	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.49	JB	0.0602	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	4.02	JB	0.0450	MDL	5.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.302	JB	0.0197	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-069-SA6-SB-4.0-5.0 *Collected:* 7/27/2011 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
1,2,3,4,6,7,8-HPCDF	0.401	JB	0.0121	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.124	JBQ	0.0248	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0266	JB	0.0154	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.104	JBQ	0.0163	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.120	JB	0.0158	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0597	JB	0.0130	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.107	JB	0.0154	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0782	JB	0.0168	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0351	JBQ	0.0119	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0526	JBQ	0.0121	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0733	JB	0.0136	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.106	JBQ	0.0124	MDL	5.22	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0117	JBQ	0.0105	MDL	1.04	PQL	ng/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: DX120 **Laboratory:** LL

EDD Filename: DX120_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-069-SA6-SB-4.0-5.0 **Collected:** 7/27/2011 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
2,3,7,8-TCDF	0.0257	JBQ	0.0147	MDL	1.04	PQL	ng/Kg	U	B
OCDF	0.991	JB	0.0310	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-069-SA6-SB-9.0-10.0 **Collected:** 7/27/2011 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
1,2,3,4,6,7,8-HPCDD	1.37	JB	0.0191	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.150	JBQ	0.00885	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0618	JB	0.0161	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0355	JBQ	0.0136	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.358	JB	0.0178	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0808	JB	0.0145	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0515	JBQ	0.0146	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.143	JB	0.0126	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.164	JBQ	0.0171	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0451	JBQ	0.0131	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.140	JB	0.0156	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0593	JB	0.0125	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.261	JBQ	0.0164	MDL	5.48	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0825	JB	0.0313	MDL	1.10	PQL	ng/Kg	U	B
OCDD	10.5	JB	0.0240	MDL	11.0	PQL	ng/Kg	J	Z
OCDF	0.396	JB	0.0255	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-076-SA6-SB-2.0-3.0 **Collected:** 7/27/2011 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
1,2,3,4,6,7,8-HPCDD	0.473	JB	0.0199	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0433	JBQ	0.00542	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0620	JBQ	0.0125	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0199	JBQ	0.0146	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0227	JBQ	0.0119	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0393	JBQ	0.0154	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0311	JB	0.00975	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0689	JBQ	0.0148	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0310	JBQ	0.0160	MDL	5.41	PQL	ng/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: DX120 **Laboratory:** LL

EDD Filename: DX120_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-076-SA6-SB-2.0-3.0 ***Collected:*** 7/27/2011 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
1,2,3,7,8-PECDF	0.0268	JBQ	0.00769	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0152	JBQ	0.0102	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0478	JBQ	0.00823	MDL	5.41	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0638	JB	0.0180	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0129	JBQ	0.0116	MDL	1.08	PQL	ng/Kg	U	B
OCDD	0.974	JB	0.0217	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.135	JBQ	0.0341	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-077-SA6-SB-4.0-5.0 ***Collected:*** 7/26/2011 9:30:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.83	JB	0.0336	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.326	JB	0.0484	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.102	JBQ	0.0283	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.174	JBQ	0.0246	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.518	JB	0.0294	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.125	JBQ	0.0239	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.220	JB	0.0284	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0880	JB	0.0279	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0581	JB	0.0166	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.655	JB	0.0156	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.204	JBQ	0.0244	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.282	JB	0.0150	MDL	5.38	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0208	JB	0.0141	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0649	JB	0.0221	MDL	1.08	PQL	ng/Kg	U	B
OCDF	5.93	JB	0.0586	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-077-SA6-SB-9.0-10.0 ***Collected:*** 7/26/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.48	JB	0.0236	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.238	JB	0.0226	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.19	JB	0.0226	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.931	JB	0.0235	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.944	JB	0.0205	MDL	5.73	PQL	ng/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: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: **GENCHEM**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: SL-077-SA6-SB-9.0-10.0 ***Collected:*** 7/26/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.421	JBQ	0.0238	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.806	JB	0.0254	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.231	JBQ	0.0178	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.926	JB	0.0223	MDL	5.73	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.13	JB	0.0212	MDL	5.73	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.24	JB	0.0213	MDL	5.73	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0576	JBQ	0.0121	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.481	JB	0.0397	MDL	1.15	PQL	ng/Kg	J	Z

Sample ID: SL-080-SA6-SB-3.5-4.5 ***Collected:*** 7/26/2011 10:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.435	JB	0.0136	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0648	JBQ	0.00775	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0331	JBQ	0.0133	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0177	JBQ	0.00984	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0497	JB	0.0135	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0438	JBQ	0.0103	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0325	JBQ	0.0114	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0446	JBQ	0.0102	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0502	JBQ	0.0145	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0156	JBQ	0.0112	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0287	JB	0.0114	MDL	5.19	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0566	JBQ	0.0124	MDL	5.19	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0625	JBQ	0.0110	MDL	5.19	PQL	ng/Kg	U	B
OCDD	1.08	JB	0.0138	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.172	JB	0.0185	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-089-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.27	JB	0.0103	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.189	JB	0.0169	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0727	JBQ	0.0159	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.212	JBQ	0.0147	MDL	5.40	PQL	ng/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: DX120 **Laboratory:** LL

EDD Filename: DX120_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-089-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.370	JB	0.0162	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.119	JB	0.0132	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.176	JB	0.0159	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0618	JBQ	0.0163	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0484	JB	0.0134	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.497	JB	0.0140	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.151	JB	0.0134	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.429	JB	0.0135	MDL	5.40	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0209	JBQ	0.00989	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.205	JB	0.0245	MDL	1.08	PQL	ng/Kg	J	Z
OCDF	2.80	JB	0.0201	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-089-SA6-SB-9.0-10.0 ***Collected:*** 7/27/2011 10:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.44	JB	0.0153	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.473	JB	0.0214	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.346	JB	0.0224	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.396	JB	0.0177	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.26	JB	0.0228	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.216	JB	0.0153	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.570	JB	0.0229	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.120	JBQ	0.0169	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.385	JB	0.0171	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.111	JB	0.0127	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.323	JB	0.0141	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.357	JB	0.0124	MDL	5.31	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0567	JBQ	0.0101	MDL	1.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.204	JB	0.0189	MDL	1.06	PQL	ng/Kg	J	Z

Sample ID: SL-117-SA6-SB-2.0-3.0 ***Collected:*** 7/27/2011 12:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.484	JB	0.0137	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.136	JB	0.00699	MDL	5.14	PQL	ng/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: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-117-SA6-SB-2.0-3.0 *Collected:* 7/27/2011 12:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.0624	JB	0.0154	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0452	JBQ	0.00960	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0963	JBQ	0.00960	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0527	JB	0.0100	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0715	JB	0.00762	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0756	JB	0.00929	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0586	JBQ	0.0100	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0959	JBQ	0.00971	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.102	JB	0.00605	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0610	JB	0.00835	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.131	JB	0.00605	MDL	5.14	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0404	JB	0.00939	MDL	1.03	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0225	JBQ	0.00856	MDL	1.03	PQL	ng/Kg	U	B
OCDD	2.07	JB	0.0143	MDL	10.3	PQL	ng/Kg	U	B
OCDF	0.349	JB	0.0195	MDL	10.3	PQL	ng/Kg	U	B

Sample ID: SL-179-SA5DN-SB-4.0-5.0 *Collected:* 7/27/2011 2:31:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.33	JB	0.0382	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.90	JB	0.0547	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.982	JB	0.0282	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.11	JB	0.0255	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.11	JB	0.0528	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.328	JB	0.0335	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.713	JB	0.0352	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.638	JB	0.0158	MDL	5.16	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.80	JB	0.0273	MDL	5.16	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.626	JB	0.0159	MDL	5.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0859	JB	0.0140	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.126	JB	0.0284	MDL	1.03	PQL	ng/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: DX120 **Laboratory:** LL

EDD Filename: DX120_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-179-SA5DN-SB-9.0-10.0 ***Collected:*** 7/27/2011 2:49:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.852	JB	0.00889	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.111	JBQ	0.0168	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0800	JB	0.0200	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0747	JB	0.0122	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.311	JB	0.0201	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0642	JB	0.0103	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.145	JB	0.0205	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0285	JB	0.0130	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0536	JB	0.0137	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0467	JB	0.00730	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0903	JB	0.0107	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0887	JBQ	0.00718	MDL	5.52	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0116	JBQ	0.0105	MDL	1.10	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0278	JBQ	0.0131	MDL	1.10	PQL	ng/Kg	U	B
OCDF	1.98	JB	0.0200	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-311-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 11:31:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.49	JB	0.0259	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.63	JB	0.0225	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.48	JB	0.0223	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.06	JB	0.0373	MDL	5.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.151	JB	0.0228	MDL	1.01	PQL	ng/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: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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
*XI	Compound Quantitation and CRQL
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

Data Qualifier Summary

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_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

Data Qualifier Summary

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX120

Method Blank Outlier Report

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2340B371734	8/23/2011 5:34:00 PM	1,2,3,4,6,7,8-HPCDD	2.80 pg/L	EB-SA6-SB-072711
		1,2,3,4,6,7,8-HPCDF	0.632 pg/L	EB-SA6-SS-072611
		1,2,3,4,7,8,9-HPCDF	0.512 pg/L	
		1,2,3,4,7,8-HxCDD	0.765 pg/L	
		1,2,3,4,7,8-HXCDF	0.547 pg/L	
		1,2,3,6,7,8-HXCDD	0.856 pg/L	
		1,2,3,6,7,8-HXCDF	0.489 pg/L	
		1,2,3,7,8,9-HXCDD	0.876 pg/L	
		1,2,3,7,8,9-HXCDF	0.588 pg/L	
		1,2,3,7,8-PECDD	0.858 pg/L	
		2,3,4,6,7,8-HXCDF	0.562 pg/L	
		2,3,4,7,8-PECDF	1.02 pg/L	
		OCDD	6.56 pg/L	
		OCDF	2.84 pg/L	

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-072711(RES)	1,2,3,4,6,7,8-HPCDD	2.95 pg/L	2.95U pg/L
EB-SA6-SB-072711(RES)	1,2,3,4,6,7,8-HPCDF	0.567 pg/L	0.567U pg/L
EB-SA6-SB-072711(RES)	1,2,3,4,7,8-HxCDD	0.369 pg/L	0.369U pg/L
EB-SA6-SB-072711(RES)	1,2,3,4,7,8-HXCDF	0.225 pg/L	0.225U pg/L
EB-SA6-SB-072711(RES)	1,2,3,6,7,8-HXCDF	0.334 pg/L	0.334U pg/L
EB-SA6-SB-072711(RES)	1,2,3,7,8,9-HXCDD	0.679 pg/L	0.679U pg/L
EB-SA6-SB-072711(RES)	1,2,3,7,8,9-HXCDF	0.463 pg/L	0.463U pg/L
EB-SA6-SB-072711(RES)	2,3,4,7,8-PECDF	0.611 pg/L	0.611U pg/L
EB-SA6-SB-072711(RES)	OCDD	5.10 pg/L	5.10U pg/L
EB-SA6-SB-072711(RES)	OCDF	0.922 pg/L	0.922U pg/L
EB-SA6-SS-072611(RES)	1,2,3,4,6,7,8-HPCDD	3.71 pg/L	3.71U pg/L
EB-SA6-SS-072611(RES)	1,2,3,4,6,7,8-HPCDF	1.69 pg/L	1.69U pg/L
EB-SA6-SS-072611(RES)	1,2,3,4,7,8,9-HPCDF	0.449 pg/L	0.449U pg/L
EB-SA6-SS-072611(RES)	1,2,3,6,7,8-HXCDD	0.484 pg/L	0.484U pg/L
EB-SA6-SS-072611(RES)	1,2,3,6,7,8-HXCDF	0.392 pg/L	0.392U pg/L
EB-SA6-SS-072611(RES)	1,2,3,7,8,9-HXCDD	0.576 pg/L	0.576U pg/L
EB-SA6-SS-072611(RES)	1,2,3,7,8,9-HXCDF	1.09 pg/L	1.09U pg/L
EB-SA6-SS-072611(RES)	2,3,4,6,7,8-HXCDF	0.368 pg/L	0.368U pg/L
EB-SA6-SS-072611(RES)	2,3,4,7,8-PECDF	1.95 pg/L	1.95U pg/L
EB-SA6-SS-072611(RES)	OCDD	7.99 pg/L	7.99U pg/L
EB-SA6-SS-072611(RES)	OCDF	1.26 pg/L	1.26U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2220B371906	8/11/2011 7:06:00 PM	1,2,3,4,6,7,8-HPCDD	0.375 ng/Kg	DUP08-SA6-QC-072611
		1,2,3,4,6,7,8-HPCDF	0.0662 ng/Kg	DUP09-SA6-QC-072711
		1,2,3,4,7,8,9-HPCDF	0.0516 ng/Kg	SL-009-SA6-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0259 ng/Kg	SL-017-SA6-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0276 ng/Kg	SL-028-SA6-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0288 ng/Kg	SL-069-SA6-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0193 ng/Kg	SL-069-SA6-SB-9.0-10.0
		1,2,3,7,8,9-HXCDD	0.0352 ng/Kg	SL-076-SA6-SB-2.0-3.0
		1,2,3,7,8,9-HXCDF	0.0495 ng/Kg	SL-077-SA6-SB-4.0-5.0
		1,2,3,7,8-PECDD	0.0249 ng/Kg	SL-077-SA6-SB-9.0-10.0
		1,2,3,7,8-PECDF	0.0262 ng/Kg	SL-080-SA6-SB-3.5-4.5
		2,3,4,6,7,8-HXCDF	0.0255 ng/Kg	SL-089-SA6-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0487 ng/Kg	SL-089-SA6-SB-9.0-10.0
		2,3,7,8-TCDD	0.0152 ng/Kg	SL-117-SA6-SB-2.0-3.0
		2,3,7,8-TCDF	0.0165 ng/Kg	SL-179-SA5DN-SB-4.0-5.0
		OCDD	1.08 ng/Kg	SL-179-SA5DN-SB-9.0-10.0
		OCDF	0.166 ng/Kg	SL-311-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
DUP08-SA6-QC-072611(RES)	2,3,7,8-TCDD	0.0680 ng/Kg	0.0680U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.124 ng/Kg	0.124U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0266 ng/Kg	0.0266U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.104 ng/Kg	0.104U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.120 ng/Kg	0.120U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0597 ng/Kg	0.0597U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.107 ng/Kg	0.107U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0782 ng/Kg	0.0782U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0351 ng/Kg	0.0351U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0526 ng/Kg	0.0526U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0733 ng/Kg	0.0733U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.106 ng/Kg	0.106U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0117 ng/Kg	0.0117U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0257 ng/Kg	0.0257U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	1.37 ng/Kg	1.37U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.150 ng/Kg	0.150U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0618 ng/Kg	0.0618U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0355 ng/Kg	0.0355U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0808 ng/Kg	0.0808U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0515 ng/Kg	0.0515U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.143 ng/Kg	0.143U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.164 ng/Kg	0.164U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0451 ng/Kg	0.0451U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0593 ng/Kg	0.0593U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0825 ng/Kg	0.0825U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	OCDF	0.396 ng/Kg	0.396U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.473 ng/Kg	0.473U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0433 ng/Kg	0.0433U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0620 ng/Kg	0.0620U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-076-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0199 ng/Kg	0.0199U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0227 ng/Kg	0.0227U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.0393 ng/Kg	0.0393U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0311 ng/Kg	0.0311U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.0689 ng/Kg	0.0689U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.0310 ng/Kg	0.0310U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0268 ng/Kg	0.0268U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0152 ng/Kg	0.0152U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0478 ng/Kg	0.0478U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	2,3,7,8-TCDD	0.0638 ng/Kg	0.0638U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	2,3,7,8-TCDF	0.0129 ng/Kg	0.0129U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	OCDD	0.974 ng/Kg	0.974U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	OCDF	0.135 ng/Kg	0.135U ng/Kg
SL-077-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.102 ng/Kg	0.102U ng/Kg
SL-077-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0880 ng/Kg	0.0880U ng/Kg
SL-077-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0581 ng/Kg	0.0581U ng/Kg
SL-077-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0208 ng/Kg	0.0208U ng/Kg
SL-077-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0649 ng/Kg	0.0649U ng/Kg
SL-077-SA6-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0576 ng/Kg	0.0576U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.435 ng/Kg	0.435U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0648 ng/Kg	0.0648U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0331 ng/Kg	0.0331U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8-HxCDD	0.0177 ng/Kg	0.0177U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8-HXCDF	0.0497 ng/Kg	0.0497U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDD	0.0438 ng/Kg	0.0438U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDF	0.0325 ng/Kg	0.0325U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDD	0.0446 ng/Kg	0.0446U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDF	0.0502 ng/Kg	0.0502U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.0156 ng/Kg	0.0156U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,7,8-PECDF	0.0287 ng/Kg	0.0287U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	2,3,4,6,7,8-HXCDF	0.0566 ng/Kg	0.0566U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.0625 ng/Kg	0.0625U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	OCDD	1.08 ng/Kg	1.08U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	OCDF	0.172 ng/Kg	0.172U ng/Kg
SL-089-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.189 ng/Kg	0.189U ng/Kg
SL-089-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0727 ng/Kg	0.0727U ng/Kg
SL-089-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.176 ng/Kg	0.176U ng/Kg
SL-089-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0618 ng/Kg	0.0618U ng/Kg
SL-089-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0484 ng/Kg	0.0484U ng/Kg
SL-089-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0209 ng/Kg	0.0209U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-089-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-089-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.111 ng/Kg	0.111U ng/Kg
SL-089-SA6-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0567 ng/Kg	0.0567U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.484 ng/Kg	0.484U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.136 ng/Kg	0.136U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0624 ng/Kg	0.0624U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0452 ng/Kg	0.0452U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0963 ng/Kg	0.0963U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.0527 ng/Kg	0.0527U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0715 ng/Kg	0.0715U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.0756 ng/Kg	0.0756U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0586 ng/Kg	0.0586U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.0959 ng/Kg	0.0959U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.102 ng/Kg	0.102U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0610 ng/Kg	0.0610U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.131 ng/Kg	0.131U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	2,3,7,8-TCDD	0.0404 ng/Kg	0.0404U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	2,3,7,8-TCDF	0.0225 ng/Kg	0.0225U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	OCDD	2.07 ng/Kg	2.07U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	OCDF	0.349 ng/Kg	0.349U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.111 ng/Kg	0.111U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0800 ng/Kg	0.0800U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0747 ng/Kg	0.0747U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0642 ng/Kg	0.0642U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.145 ng/Kg	0.145U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0285 ng/Kg	0.0285U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0536 ng/Kg	0.0536U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0467 ng/Kg	0.0467U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0903 ng/Kg	0.0903U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0887 ng/Kg	0.0887U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0116 ng/Kg	0.0116U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0278 ng/Kg	0.0278U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX120 Laboratory: LL

EDD Filename: DX120_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	OCDD	213	-17	40.00-135.00	22 (20.00)	OCDD	No Qual, >4x
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	OCDF	180	-	40.00-135.00	36 (20.00)	OCDF	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
MOISTURE	2.7	2.7	0		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
1,2,3,4,6,7,8-HPCDD	162	174	7	50.00	
1,2,3,4,6,7,8-HPCDF	30.9	30.8	0	50.00	
1,2,3,4,7,8,9-HPCDF	2.83	2.92	3	50.00	
1,2,3,4,7,8-HxCDD	1.58	1.50	5	50.00	
1,2,3,4,7,8-HXCDF	6.02	6.83	13	50.00	
1,2,3,6,7,8-HXCDD	6.58	6.42	2	50.00	
1,2,3,6,7,8-HXCDF	3.33	2.79	18	50.00	
1,2,3,7,8,9-HXCDD	3.42	3.63	6	50.00	No Qualifiers Applied
1,2,3,7,8,9-HXCDF	0.876	0.819	7	50.00	
1,2,3,7,8-PECDD	1.32	1.24	6	50.00	
2,3,4,6,7,8-HXCDF	3.16	2.84	11	50.00	
2,3,4,7,8-PECDF	5.95	5.96	0	50.00	
2,3,7,8-TCDF	4.53	4.11	10	50.00	
OCDD	1920	1790	7	50.00	
OCDF	80.5	86.7	7	50.00	
1,2,3,7,8-PECDF	10.3	1.90	138	50.00	J(all detects)
2,3,7,8-TCDD	6.67	1.32	134	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-072711	1,2,3,4,6,7,8-HPCDD	JB	2.95	9.80	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.567	9.80	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.369	9.80	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.225	9.80	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.334	9.80	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.679	9.80	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JB	0.463	9.80	PQL	pg/L	
	1,2,3,7,8-PECDF	JQ	0.377	9.80	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.611	9.80	PQL	pg/L	
	2,3,7,8-TCDF	JQ	0.571	1.96	PQL	pg/L	
	OCDD	JBQ	5.10	19.6	PQL	pg/L	
	OCDF	JB	0.922	19.6	PQL	pg/L	
EB-SA6-SS-072611	1,2,3,4,6,7,8-HPCDD	JBQ	3.71	9.94	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.69	9.94	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.449	9.94	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JB	0.484	9.94	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.392	9.94	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.576	9.94	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	1.09	9.94	PQL	pg/L	
	1,2,3,7,8-PECDF	JQ	1.65	9.94	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.368	9.94	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	1.95	9.94	PQL	pg/L	
	OCDD	JB	7.99	19.9	PQL	pg/L	
	OCDF	JBQ	1.26	19.9	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP08-SA6-QC-072611	1,2,3,4,7,8,9-HPCDF	JB	1.49	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.737	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.66	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.69	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.822	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.363	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.80	5.08	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0680	1.02	PQL	ng/Kg	
DUP09-SA6-QC-072711	1,2,3,4,7,8,9-HPCDF	JB	2.92	4.93	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.50	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.79	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.63	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.819	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.24	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.90	4.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.84	4.93	PQL	ng/Kg	
SL-009-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.83	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.58	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.33	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.42	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.876	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.32	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.16	5.08	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-017-SA6-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	JB	4.75	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,6,7,8-HXCDF	JB	4.18	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.17	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.18	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.36	5.00	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.326	1.00	PQL	ng/Kg	
SL-028-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.52	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.77	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.81	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.964	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.49	5.07	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	4.02	5.07	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.302	1.01	PQL	ng/Kg	
SL-069-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	0.401	5.22	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.124	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0266	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.104	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.120	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0597	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.107	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0782	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0351	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0526	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0733	5.22	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.106	5.22	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0117	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0257	1.04	PQL	ng/Kg	
	OCDF	JB	0.991	10.4	PQL	ng/Kg	
SL-069-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.37	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.150	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0618	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0355	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.358	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0808	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0515	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.143	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.164	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0451	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.140	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0593	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.261	5.48	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0825	1.10	PQL	ng/Kg	
	OCDD	JB	10.5	11.0	PQL	ng/Kg	
	OCDF	JB	0.396	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-076-SA6-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.473	5.41	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0433	5.41	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0620	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0199	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0227	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0393	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0311	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0689	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0310	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0268	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0152	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0478	5.41	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0638	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0129	1.08	PQL	ng/Kg	
	OCDD	JB	0.974	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.135	10.8	PQL	ng/Kg	
SL-077-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.83	5.38	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.326	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.102	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.174	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.518	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.125	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.220	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0880	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0581	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.655	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.204	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.282	5.38	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0208	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0649	1.08	PQL	ng/Kg	
	OCDF	JB	5.93	10.8	PQL	ng/Kg	
SL-077-SA6-SB-9.0-10.0	1,2,3,4,7,8,9-HPCDF	JB	1.48	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.238	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.19	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.931	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.944	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.421	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.806	5.73	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.231	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.926	5.73	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.13	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.24	5.73	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0576	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.481	1.15	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-080-SA6-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JB	0.435	5.19	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0648	5.19	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0331	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0177	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0497	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0438	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0325	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0446	5.19	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0502	5.19	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0156	5.19	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0287	5.19	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0566	5.19	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0625	5.19	PQL	ng/Kg	
	OCDD	JB	1.08	10.4	PQL	ng/Kg	
	OCDF	JB	0.172	10.4	PQL	ng/Kg	
SL-089-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.27	5.40	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.189	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0727	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.212	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.370	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.119	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.176	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0618	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0484	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.497	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.151	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.429	5.40	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0209	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.205	1.08	PQL	ng/Kg	
	OCDF	JB	2.80	10.8	PQL	ng/Kg	
SL-089-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	4.44	5.31	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.473	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.346	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.396	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.26	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.216	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.570	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.120	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.385	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.111	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.323	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.357	5.31	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0567	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.204	1.06	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-117-SA6-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.484	5.14	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.136	5.14	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0624	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0452	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0963	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0527	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0715	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0756	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0586	5.14	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0959	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.102	5.14	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0610	5.14	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.131	5.14	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0404	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0225	1.03	PQL	ng/Kg	
	OCDD	JB	2.07	10.3	PQL	ng/Kg	
	OCDF	JB	0.349	10.3	PQL	ng/Kg	
SL-179-SA5DN-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	2.33	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.90	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.982	5.16	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.11	5.16	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.11	5.16	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.328	5.16	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.713	5.16	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.638	5.16	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.80	5.16	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.626	5.16	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0859	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.126	1.03	PQL	ng/Kg	
SL-179-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	0.852	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.111	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0800	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0747	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.311	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0642	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.145	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0285	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0536	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0467	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0903	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0887	5.52	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0116	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0278	1.10	PQL	ng/Kg	
	OCDF	JB	1.98	11.0	PQL	ng/Kg	
SL-311-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	3.49	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.63	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.48	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.06	5.07	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.151	1.01	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX121

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
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359587	N	METHOD	1613B	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359588	N	METHOD	1613B	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359582	N	METHOD	1613B	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359583	MS	METHOD	1613B	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359586	FD	METHOD	1613B	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359589	N	METHOD	1613B	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359585	N	METHOD	1613B	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359591	N	METHOD	1613B	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359590	N	METHOD	1613B	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359580	N	METHOD	1613B	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359581	N	METHOD	1613B	III
29-Jul-2011	SL-180-SA5DN-SB-4.0-5.0	6360515	N	METHOD	1613B	III
29-Jul-2011	SL-180-SA5DN-SB-9.0-10.0	6360516	N	METHOD	1613B	III
29-Jul-2011	SL-123-SA6-SB-4.0-5.0	6360520	N	METHOD	1613B	III
29-Jul-2011	SL-123-SA6-SB-7.0-8.0	6360521	N	METHOD	1613B	III
29-Jul-2011	SL-122-SA6-SB-0.0-0.5	6360519	N	METHOD	1613B	III
29-Jul-2011	SL-174-SA5DN-SB-4.0-5.0	6360517	N	METHOD	1613B	III
29-Jul-2011	SL-174-SA5DN-SB-9.0-10.0	6360518	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX121 **Laboratory:** LL

EDD Filename: DX121_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: DUP21-SA5DN-QC-072811 *Collected:* 7/28/2011 10:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.12	JB	0.0169	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.177	JB	0.00765	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0442	JB	0.0185	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0398	JQ	0.0134	MDL	5.42	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.0536	JB	0.0112	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0870	JBQ	0.0137	MDL	5.42	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0378	JBQ	0.00831	MDL	5.42	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.0919	JB	0.0132	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0923	JBQ	0.0133	MDL	5.42	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0105	U	0.0105	MDL	5.42	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.0467	JBQ	0.00721	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0484	JB	0.00931	MDL	5.42	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0711	JBQ	0.00798	MDL	5.42	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0235	JQ	0.0121	MDL	1.08	PQL	ng/Kg	J	Z, FD
OCDD	8.41	JB	0.0130	MDL	10.8	PQL	ng/Kg	J	Z, FD
OCDF	0.432	JB	0.0222	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-068-SA6-SB-19.0-20.0 *Collected:* 7/28/2011 7:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.940	JB	0.0313	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.621	J	0.0322	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.666	JB	0.0266	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.02	JB	0.0330	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.502	JB	0.0218	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.767	JB	0.0318	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.263	JB	0.0224	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.321	JB	0.0236	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.513	JB	0.0172	MDL	5.63	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.635	JB	0.0224	MDL	5.63	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.423	JB	0.0207	MDL	5.63	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.148	J	0.0131	MDL	1.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.338	J	0.0274	MDL	1.13	PQL	ng/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: DX121 **Laboratory:** LL

EDD Filename: DX121_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-068-SA6-SB-4.0-5.0 *Collected:* 7/28/2011 7:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.35	JB	0.0122	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.227	JB	0.0185	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.142	J	0.0261	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.257	JB	0.0224	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.453	JB	0.0255	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.158	JB	0.0188	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.203	JB	0.0252	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0896	JB	0.0197	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.146	JB	0.0145	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.204	JB	0.0161	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.188	JB	0.0190	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.183	JBQ	0.0163	MDL	5.34	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0776	J	0.0118	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0796	JQ	0.0204	MDL	1.07	PQL	ng/Kg	J	Z
OCDF	2.96	JB	0.0182	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-070-SA6-SB-19.0-20.0 *Collected:* 7/28/2011 11:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.94	JB	0.0292	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.557	JB	0.0399	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.343	J	0.0361	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.408	JB	0.0251	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.43	JB	0.0373	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.233	JB	0.0227	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.679	JB	0.0349	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.103	JB	0.0274	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.182	JB	0.0276	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.705	JB	0.0224	MDL	5.93	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.354	JB	0.0239	MDL	5.93	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.203	JB	0.0252	MDL	5.93	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0859	JQ	0.0136	MDL	1.19	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.270	JQ	0.0339	MDL	1.19	PQL	ng/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: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-070-SA6-SB-4.0-5.0 *Collected:* 7/28/2011 10:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.696	JB	0.0111	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.163	JB	0.0251	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.121	J	0.0180	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.224	JB	0.0213	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.234	JB	0.0181	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.169	JB	0.0150	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.177	JB	0.0177	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.149	JB	0.0185	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.249	JBQ	0.0136	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.361	JB	0.00973	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.149	JB	0.0161	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.258	JB	0.0120	MDL	5.42	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0846	J	0.0120	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.110	J	0.0180	MDL	1.08	PQL	ng/Kg	J	Z
OCDF	1.73	JB	0.0206	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-090-SA6-SB-3.0-4.0 *Collected:* 7/28/2011 11:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.363	JB	0.0122	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0582	JBQ	0.00587	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0362	JBQ	0.0188	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0109	JQ	0.00842	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0347	JB	0.00676	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0293	JBQ	0.00875	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0157	JBQ	0.00454	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0310	JB	0.00864	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0423	JBQ	0.00853	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0172	JBQ	0.00975	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0243	JBQ	0.00698	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0215	JB	0.00554	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0374	JBQ	0.00864	MDL	5.41	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0222	J	0.0112	MDL	1.08	PQL	ng/Kg	J	Z
OCDD	1.12	JB	0.0106	MDL	10.8	PQL	ng/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: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-090-SA6-SB-3.0-4.0 *Collected:* 7/28/2011 11:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.243	JBQ	0.0279	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-122-SA6-SB-0.0-0.5 *Collected:* 7/29/2011 2:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.57	JB	0.0248	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.234	J	0.0232	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.33	JB	0.0402	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.650	JB	0.0239	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.48	JB	0.0335	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.403	JB	0.0214	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.838	JB	0.0420	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.188	JB	0.0252	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.37	JB	0.0476	MDL	4.91	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.38	JB	0.0378	MDL	4.91	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.60	JB	0.0545	MDL	4.91	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0680	J	0.0112	MDL	0.983	PQL	ng/Kg	J	Z

Sample ID: SL-123-SA6-SB-4.0-5.0 *Collected:* 7/29/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.86	JB	0.0388	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.30	J	0.0377	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.22	JB	0.0403	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.30	JB	0.0336	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.31	JB	0.0360	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.521	JB	0.0384	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.653	JB	0.0350	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.459	JB	0.0253	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.77	JB	0.0357	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.487	JB	0.0278	MDL	5.31	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.323	J	0.0128	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.277	J	0.0607	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	6810	EB	0.0556	MDL	10.6	PQL	ng/Kg	J	*XI

* 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: DX121 **Laboratory:** LL

EDD Filename: DX121_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-123-SA6-SB-7.0-8.0 ***Collected:*** 7/29/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.36	JB	0.0323	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.55	J	0.0336	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.09	JB	0.0388	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.13	JB	0.0362	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.68	JB	0.0341	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.541	JB	0.0358	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.470	JB	0.0372	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.748	JB	0.0295	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.54	JB	0.0326	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.29	JB	0.0289	MDL	5.44	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.167	J	0.0124	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	1.02	J	0.0487	MDL	1.09	PQL	ng/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-4.0-5.0 ***Collected:*** 7/28/2011 12:04:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.756	JB	0.0116	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0873	JBQ	0.0243	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.158	J	0.0402	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0874	JB	0.0265	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.413	JB	0.0420	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0721	JBQ	0.0223	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.467	JB	0.0386	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.320	JB	0.0311	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.119	JB	0.0203	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.190	JB	0.0163	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0825	JB	0.0255	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.112	JBQ	0.0195	MDL	5.53	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0186	JQ	0.0165	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	1.88	JB	0.0251	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-9.0-10.0 ***Collected:*** 7/28/2011 12:09:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.67	JB	0.0270	MDL	5.85	PQL	ng/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: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-172-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 12:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.732	JB	0.00993	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0718	JBQ	0.0202	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0893	J	0.0277	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0767	JBQ	0.0173	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.224	JB	0.0271	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0417	JB	0.0142	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.201	JB	0.0264	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0562	JB	0.0228	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0700	JBQ	0.0175	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0625	JBQ	0.0123	MDL	5.85	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0506	JB	0.0158	MDL	5.85	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0553	JBQ	0.0139	MDL	5.85	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0220	JQ	0.0169	MDL	1.17	PQL	ng/Kg	J	Z
OCDF	1.98	JB	0.0201	MDL	11.7	PQL	ng/Kg	J	Z

Sample ID: SL-174-SA5DN-SB-4.0-5.0 *Collected:* 7/29/2011 2:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.57	JB	0.0246	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.873	JB	0.00804	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.114	JB	0.0212	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0561	J	0.0217	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0892	JBQ	0.0177	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.230	JB	0.0219	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0649	JBQ	0.0132	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.127	JB	0.0204	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0448	JB	0.0192	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0511	JBQ	0.0162	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0582	JB	0.00851	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0793	JBQ	0.0159	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0605	JBQ	0.0112	MDL	5.65	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0361	J	0.0129	MDL	1.13	PQL	ng/Kg	J	Z
OCDF	1.93	JB	0.0216	MDL	11.3	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX121 **Laboratory:** LL

EDD Filename: DX121_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-174-SA5DN-SB-9.0-10.0 *Collected:* 7/29/2011 2:51:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.989	JB	0.00575	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.142	JB	0.0147	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0715	JQ	0.0228	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.101	JB	0.0158	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.296	JB	0.0231	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0851	JB	0.0125	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.144	JB	0.0215	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0490	JB	0.0180	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0634	JB	0.0145	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0845	JBQ	0.00875	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.103	JB	0.0145	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0924	JB	0.00990	MDL	5.68	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0512	JQ	0.0106	MDL	1.14	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0336	JQ	0.0139	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	2.06	JB	0.0168	MDL	11.4	PQL	ng/Kg	J	Z

Sample ID: SL-180-SA5DN-SB-4.0-5.0 *Collected:* 7/29/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.728	JB	0.0128	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.109	JB	0.00627	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0568	JBQ	0.0187	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0116	JQ	0.0107	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0267	JB	0.00810	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0392	JBQ	0.0109	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0165	JBQ	0.00570	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0363	JBQ	0.0104	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0335	JBQ	0.0104	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0129	JB	0.0107	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0282	JBQ	0.00650	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0205	JBQ	0.00673	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0404	JB	0.00775	MDL	5.59	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0169	JQ	0.0111	MDL	1.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0126	J	0.0121	MDL	1.12	PQL	ng/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: DX121 **Laboratory:** LL

EDD Filename: DX121_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-180-SA5DN-SB-4.0-5.0 *Collected:* 7/29/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	4.51	JB	0.0122	MDL	11.2	PQL	ng/Kg	J	Z
OCDF	0.271	JBQ	0.0273	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-180-SA5DN-SB-9.0-10.0 *Collected:* 7/29/2011 9:12:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.57	JB	0.0152	MDL	5.87	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.293	JB	0.00563	MDL	5.87	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0751	JB	0.0171	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0402	J	0.0165	MDL	5.87	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0292	JB	0.0103	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.124	JB	0.0168	MDL	5.87	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0321	JB	0.00766	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0977	JB	0.0162	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0311	JBQ	0.0134	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0413	JBQ	0.0109	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0257	JBQ	0.00599	MDL	5.87	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0407	JB	0.00910	MDL	5.87	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0428	JBQ	0.00778	MDL	5.87	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0157	J	0.0109	MDL	1.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0171	JQ	0.0125	MDL	1.17	PQL	ng/Kg	J	Z
OCDF	0.623	JB	0.0284	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-183-SA5DN-SB-4.0-5.0 *Collected:* 7/28/2011 10:11:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.800	JB	0.0184	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.113	JBQ	0.00617	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0361	JBQ	0.0175	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0161	J	0.0130	MDL	5.45	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.0386	JB	0.00999	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0411	JBQ	0.0135	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0120	JBQ	0.00752	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.0713	JBQ	0.0132	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0527	JBQ	0.0112	MDL	5.45	PQL	ng/Kg	UJ	B, 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: DX121 **Laboratory:** LL

EDD Filename: DX121_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-183-SA5DN-SB-4.0-5.0 ***Collected:*** 7/28/2011 10:11:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.0194	JBQ	0.0145	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0458	JBQ	0.00808	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0277	JBQ	0.00853	MDL	5.45	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0562	JBQ	0.00965	MDL	5.45	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0159	U	0.0159	MDL	1.09	PQL	ng/Kg	UJ	FD
OCDD	4.73	JB	0.0176	MDL	10.9	PQL	ng/Kg	J	Z, FD
OCDF	0.309	JB	0.0248	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-183-SA5DN-SB-9.0-10.0 ***Collected:*** 7/28/2011 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
1,2,3,4,6,7,8-HPCDD	0.554	JB	0.0177	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.109	JB	0.00803	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0807	JB	0.0157	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0677	J	0.0143	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0924	JBQ	0.0126	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0725	JBQ	0.0147	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0735	JBQ	0.00894	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0723	JBQ	0.0128	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0947	JB	0.0119	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0518	JBQ	0.0127	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0652	JBQ	0.00654	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0702	JB	0.00849	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0840	JB	0.00849	MDL	5.70	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0112	JQ	0.0111	MDL	1.14	PQL	ng/Kg	J	Z
OCDD	2.78	JB	0.0173	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.310	JB	0.0237	MDL	11.4	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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
*XI	Compound Quantitation and CRQL
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

Data Qualifier Summary

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_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

Data Qualifier Summary

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX121

Method Blank Outlier Report

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2230B371804	8/15/2011 6:04:00 PM	1,2,3,4,6,7,8-HPCDD	0.353 ng/Kg	DUP21-SA5DN-QC-072811
		1,2,3,4,6,7,8-HPCDF	0.0526 ng/Kg	SL-068-SA6-SB-19.0-20.0
		1,2,3,4,7,8,9-HPCDF	0.0314 ng/Kg	SL-068-SA6-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0198 ng/Kg	SL-070-SA6-SB-19.0-20.0
		1,2,3,6,7,8-HXCDD	0.0237 ng/Kg	SL-070-SA6-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0114 ng/Kg	SL-090-SA6-SB-3.0-4.0
		1,2,3,7,8,9-HXCDD	0.0270 ng/Kg	SL-122-SA6-SB-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.0321 ng/Kg	SL-123-SA6-SB-4.0-5.0
		1,2,3,7,8-PECDD	0.0239 ng/Kg	SL-123-SA6-SB-7.0-8.0
		1,2,3,7,8-PECDF	0.0220 ng/Kg	SL-172-SA5DN-SB-4.0-5.0
		2,3,4,6,7,8-HXCDF	0.0231 ng/Kg	SL-172-SA5DN-SB-9.0-10.0
		2,3,4,7,8-PECDF	0.0422 ng/Kg	SL-174-SA5DN-SB-4.0-5.0
		OCDD	0.751 ng/Kg	SL-174-SA5DN-SB-9.0-10.0
		OCDF	0.168 ng/Kg	SL-180-SA5DN-SB-4.0-5.0
				SL-180-SA5DN-SB-9.0-10.0
				SL-183-SA5DN-SB-4.0-5.0
				SL-183-SA5DN-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
DUP21-SA5DN-QC-072811(RES)	1,2,3,4,6,7,8-HPCDD	1.12 ng/Kg	1.12U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,4,6,7,8-HPCDF	0.177 ng/Kg	0.177U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,4,7,8,9-HPCDF	0.0442 ng/Kg	0.0442U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,4,7,8-HXCDF	0.0536 ng/Kg	0.0536U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,6,7,8-HXCDD	0.0870 ng/Kg	0.0870U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,6,7,8-HXCDF	0.0378 ng/Kg	0.0378U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,7,8,9-HXCDD	0.0919 ng/Kg	0.0919U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,7,8,9-HXCDF	0.0923 ng/Kg	0.0923U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,7,8-PECDF	0.0467 ng/Kg	0.0467U ng/Kg
DUP21-SA5DN-QC-072811(RES)	2,3,4,6,7,8-HXCDF	0.0484 ng/Kg	0.0484U ng/Kg
DUP21-SA5DN-QC-072811(RES)	2,3,4,7,8-PECDF	0.0711 ng/Kg	0.0711U ng/Kg
DUP21-SA5DN-QC-072811(RES)	OCDF	0.432 ng/Kg	0.432U ng/Kg
SL-068-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0896 ng/Kg	0.0896U ng/Kg
SL-068-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.183 ng/Kg	0.183U ng/Kg
SL-070-SA6-SB-19.0-20.0(RES)	1,2,3,7,8,9-HXCDF	0.103 ng/Kg	0.103U ng/Kg
SL-070-SA6-SB-19.0-20.0(RES)	2,3,4,7,8-PECDF	0.203 ng/Kg	0.203U ng/Kg
SL-070-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.149 ng/Kg	0.149U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.363 ng/Kg	0.363U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0582 ng/Kg	0.0582U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0362 ng/Kg	0.0362U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0347 ng/Kg	0.0347U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDD	0.0293 ng/Kg	0.0293U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0157 ng/Kg	0.0157U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.0310 ng/Kg	0.0310U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0423 ng/Kg	0.0423U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,7,8-PECDD	0.0172 ng/Kg	0.0172U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0243 ng/Kg	0.0243U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0215 ng/Kg	0.0215U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0374 ng/Kg	0.0374U ng/Kg

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

Method Blank Outlier Report

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-090-SA6-SB-3.0-4.0(RES)	OCDD	1.12 ng/Kg	1.12U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	OCDF	0.243 ng/Kg	0.243U ng/Kg
SL-172-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0873 ng/Kg	0.0873U ng/Kg
SL-172-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0874 ng/Kg	0.0874U ng/Kg
SL-172-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.119 ng/Kg	0.119U ng/Kg
SL-172-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0825 ng/Kg	0.0825U ng/Kg
SL-172-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.112 ng/Kg	0.112U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0718 ng/Kg	0.0718U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0767 ng/Kg	0.0767U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0417 ng/Kg	0.0417U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0562 ng/Kg	0.0562U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0700 ng/Kg	0.0700U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0625 ng/Kg	0.0625U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0508 ng/Kg	0.0506U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0553 ng/Kg	0.0553U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.114 ng/Kg	0.114U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0892 ng/Kg	0.0892U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.127 ng/Kg	0.127U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0448 ng/Kg	0.0448U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0511 ng/Kg	0.0511U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0582 ng/Kg	0.0582U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0793 ng/Kg	0.0793U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0605 ng/Kg	0.0605U ng/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.142 ng/Kg	0.142U ng/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0490 ng/Kg	0.0490U ng/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0634 ng/Kg	0.0634U ng/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0845 ng/Kg	0.0845U ng/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.103 ng/Kg	0.103U ng/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0924 ng/Kg	0.0924U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.728 ng/Kg	0.728U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.109 ng/Kg	0.109U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0568 ng/Kg	0.0568U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0267 ng/Kg	0.0267U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0392 ng/Kg	0.0392U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0165 ng/Kg	0.0185U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0363 ng/Kg	0.0363U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0335 ng/Kg	0.0335U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0129 ng/Kg	0.0129U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0282 ng/Kg	0.0282U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0205 ng/Kg	0.0205U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-180-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0404 ng/Kg	0.0404U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	OCDF	0.271 ng/Kg	0.271U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0751 ng/Kg	0.0751U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0292 ng/Kg	0.0292U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0321 ng/Kg	0.0321U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0977 ng/Kg	0.0977U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0311 ng/Kg	0.0311U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0413 ng/Kg	0.0413U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0257 ng/Kg	0.0257U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0407 ng/Kg	0.0407U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0428 ng/Kg	0.0428U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	OCDF	0.623 ng/Kg	0.623U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.800 ng/Kg	0.800U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.113 ng/Kg	0.113U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0361 ng/Kg	0.0361U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0386 ng/Kg	0.0386U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0411 ng/Kg	0.0411U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0120 ng/Kg	0.0120U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0713 ng/Kg	0.0713U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0527 ng/Kg	0.0527U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0194 ng/Kg	0.0194U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0458 ng/Kg	0.0458U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0277 ng/Kg	0.0277U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0562 ng/Kg	0.0562U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	OCDF	0.309 ng/Kg	0.309U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.554 ng/Kg	0.554U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.109 ng/Kg	0.109U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0807 ng/Kg	0.0807U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0924 ng/Kg	0.0924U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0725 ng/Kg	0.0725U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0723 ng/Kg	0.0723U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0947 ng/Kg	0.0947U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0518 ng/Kg	0.0518U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0652 ng/Kg	0.0652U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0702 ng/Kg	0.0702U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0840 ng/Kg	0.0840U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	OCDD	2.78 ng/Kg	2.78U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	OCDF	0.310 ng/Kg	0.310U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-183-SA5DN-SB-4.0-5.0	DUP21-SA5DN-QC-072811			
MOISTURE	10.9	9.8	11		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-183-SA5DN-SB-4.0-5.0	DUP21-SA5DN-QC-072811			
1,2,3,4,6,7,8-HPCDD	0.800	1.12	33	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.113	0.177	44	50.00	
1,2,3,4,7,8,9-HPCDF	0.0361	0.0442	20	50.00	
1,2,3,4,7,8-HXCDF	0.0386	0.0536	33	50.00	
1,2,3,7,8,9-HXCDD	0.0713	0.0919	25	50.00	
1,2,3,7,8-PECDF	0.0458	0.0467	2	50.00	
2,3,4,7,8-PECDF	0.0562	0.0711	23	50.00	
OCDF	0.309	0.432	33	50.00	
1,2,3,4,7,8-HxCDD	0.0161	0.0398	85	50.00	J(all detects) UJ(all non-detects)
1,2,3,6,7,8-HXCDD	0.0411	0.0870	72	50.00	
1,2,3,6,7,8-HXCDF	0.0120	0.0378	104	50.00	
1,2,3,7,8,9-HXCDF	0.0527	0.0923	55	50.00	
1,2,3,7,8-PECDD	0.0194	5.42 U	200	50.00	
2,3,4,6,7,8-HXCDF	0.0277	0.0484	54	50.00	
2,3,7,8-TCDF	1.09 U	0.0235	200	50.00	
OCDD	4.73	8.41	56	50.00	

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

Reporting Limit Outliers

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP21-SA5DN-QC-072811	1,2,3,4,6,7,8-HPCDD	JB	1.12	5.42	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.177	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0442	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0398	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0536	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0870	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0378	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0919	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0923	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0467	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0484	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0711	5.42	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0235	1.08	PQL	ng/Kg	
	OCDD	JB	8.41	10.8	PQL	ng/Kg	
	OCDF	JB	0.432	10.8	PQL	ng/Kg	
SL-068-SA6-SB-19.0-20.0	1,2,3,4,7,8,9-HPCDF	JB	0.940	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.621	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.666	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.02	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.502	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.767	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.263	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.321	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.513	5.63	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.635	5.63	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.423	5.63	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.148	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.338	1.13	PQL	ng/Kg	
SL-068-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.35	5.34	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.227	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.142	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.257	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.453	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.158	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.203	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0896	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.146	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.204	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.188	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.183	5.34	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0776	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0796	1.07	PQL	ng/Kg	
	OCDF	JB	2.96	10.7	PQL	ng/Kg	
SL-070-SA6-SB-19.0-20.0	1,2,3,4,6,7,8-HPCDF	JB	4.94	5.93	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.557	5.93	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.343	5.93	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.408	5.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.43	5.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.233	5.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.679	5.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.103	5.93	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.182	5.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.705	5.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.354	5.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.203	5.93	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0859	1.19	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.270	1.19	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-070-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	0.696	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.163	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.121	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.224	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.234	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.169	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.177	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.149	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.249	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.361	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.149	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.258	5.42	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0846	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.110	1.08	PQL	ng/Kg	
	OCDF	JB	1.73	10.8	PQL	ng/Kg	
SL-090-SA6-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.363	5.41	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0582	5.41	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0362	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0109	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0347	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0293	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0157	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0310	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0423	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0172	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0243	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0215	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0374	5.41	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0222	1.08	PQL	ng/Kg	
	OCDD	JB	1.12	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.243	10.8	PQL	ng/Kg	
SL-122-SA6-SB-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.57	4.91	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.234	4.91	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.33	4.91	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.650	4.91	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.48	4.91	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.403	4.91	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.838	4.91	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.188	4.91	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.37	4.91	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.38	4.91	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.60	4.91	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0680	0.983	PQL	ng/Kg	
SL-123-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	3.86	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	3.30	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.22	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.30	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.31	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.521	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.653	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.459	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.77	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.487	5.31	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.323	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.277	1.06	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-123-SA6-SB-7.0-8.0	1,2,3,4,7,8,9-HPCDF	JB	2.36	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	1.55	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.09	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.13	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.68	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.541	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.470	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.748	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.54	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.29	5.44	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.167	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	1.02	1.09	PQL	ng/Kg	
SL-172-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	0.756	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0873	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.158	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0874	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.413	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0721	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.467	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.320	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.119	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.190	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0825	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.112	5.53	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0186	1.11	PQL	ng/Kg	
	OCDF	JB	1.88	11.1	PQL	ng/Kg	
SL-172-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	5.67	5.85	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.732	5.85	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0718	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0893	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0767	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.224	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0417	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.201	5.85	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0562	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0700	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0625	5.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0506	5.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0553	5.85	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0220	1.17	PQL	ng/Kg	
	OCDF	JB	1.98	11.7	PQL	ng/Kg	
SL-174-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	5.57	5.65	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.873	5.65	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.114	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0561	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0892	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.230	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0649	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.127	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0448	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0511	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0582	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0793	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0605	5.65	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0361	1.13	PQL	ng/Kg	
	OCDF	JB	1.93	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-174-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	0.989	5.68	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.142	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0715	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.101	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.296	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0851	5.68	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.144	5.68	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0490	5.68	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0634	5.68	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0845	5.68	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.103	5.68	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0924	5.68	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0512	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0336	1.14	PQL	ng/Kg	
	OCDF	JB	2.06	11.4	PQL	ng/Kg	
SL-180-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.728	5.59	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.109	5.59	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0568	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0116	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0267	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0392	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0165	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0363	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0335	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0129	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0282	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0205	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0404	5.59	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0169	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0126	1.12	PQL	ng/Kg	
	OCDD	JB	4.51	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.271	11.2	PQL	ng/Kg	
SL-180-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	2.57	5.87	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.293	5.87	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0751	5.87	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0402	5.87	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0292	5.87	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.124	5.87	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0321	5.87	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0977	5.87	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0311	5.87	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0413	5.87	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0257	5.87	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0407	5.87	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0428	5.87	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0157	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0171	1.17	PQL	ng/Kg	
	OCDF	JB	0.623	11.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-183-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.800	5.45	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.113	5.45	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0361	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0161	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0386	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0411	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0120	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0713	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0527	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0194	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0458	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0277	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0562	5.45	PQL	ng/Kg	
	OCDD	JB	4.73	10.9	PQL	ng/Kg	
	OCDF	JB	0.309	10.9	PQL	ng/Kg	
SL-183-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.554	5.70	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.109	5.70	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0807	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0677	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0924	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0725	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0735	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0723	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0947	5.70	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0518	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0652	5.70	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0702	5.70	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0840	5.70	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0112	1.14	PQL	ng/Kg	
	OCDD	JB	2.78	11.4	PQL	ng/Kg	
	OCDF	JB	0.310	11.4	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX122

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-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360522	N	METHOD	1613B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360523	MS	METHOD	1613B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MSD	6360524	MSD	METHOD	1613B	III
29-Jul-2011	DUP10-SA6-QC-072911	6360528	FD	METHOD	1613B	III
29-Jul-2011	SL-125-SA6-SB-20.0-21.0	6360525	N	METHOD	1613B	III
29-Jul-2011	SL-126-SA6-SB-4.0-5.0	6360526	N	METHOD	1613B	III
29-Jul-2011	SL-126-SA6-SB-9.0-10.0	6360527	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX122 Laboratory: LL

EDD Filename: DX122_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP10-SA6-QC-072911 *Collected:* 7/29/2011 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
1,2,3,4,6,7,8-HPCDD	116	B	0.0969	MDL	5.59	PQL	ng/Kg	J	FD
1,2,3,4,6,7,8-HPCDF	8.48	B	0.0393	MDL	5.59	PQL	ng/Kg	J	FD
1,2,3,4,7,8,9-HPCDF	0.882	JB	0.0425	MDL	5.59	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HxCDD	0.641	JB	0.0488	MDL	5.59	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.752	JB	0.0409	MDL	5.59	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	2.24	JB	0.0478	MDL	5.59	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.412	JB	0.0378	MDL	5.59	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDD	0.823	JB	0.0465	MDL	5.59	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDF	0.171	JB	0.0391	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.197	JB	0.0352	MDL	5.59	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	1.13	JB	0.0393	MDL	5.59	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.594	JB	0.0350	MDL	5.59	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	0.357	JBQ	0.0448	MDL	5.59	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDD	0.113	J	0.0174	MDL	1.12	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.754	JB	0.0809	MDL	1.12	PQL	ng/Kg	J	Z, FD
OCDD	1540	B	0.0555	MDL	11.2	PQL	ng/Kg	J	FD
OCDF	23.2	B	0.0350	MDL	11.2	PQL	ng/Kg	J	FD

Sample ID: SL-125-SA6-SB-20.0-21.0 *Collected:* 7/29/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.06	JB	0.0315	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.449	JB	0.0351	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.168	JB	0.0453	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.760	JB	0.0434	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.574	JB	0.0467	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.306	JB	0.0411	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.321	JBQ	0.0440	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.183	JB	0.0421	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.118	JB	0.0245	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.978	JB	0.0428	MDL	5.60	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.466	JB	0.0395	MDL	5.60	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.245	JB	0.0405	MDL	5.60	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.520	JB	0.0979	MDL	1.12	PQL	ng/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: DX122 **Laboratory:** LL

EDD Filename: DX122_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-125-SA6-SB-20.0-21.0 *Collected:* 7/29/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	5.60	JB	0.0343	MDL	11.2	PQL	ng/Kg	J	Z

Sample ID: SL-125-SA6-SB-4.0-5.0 *Collected:* 7/29/2011 7:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	12.2	B	0.0324	MDL	5.47	PQL	ng/Kg	J	Q, Q, FD
1,2,3,4,6,7,8-HPCDF	0.791	JB	0.0201	MDL	5.47	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8,9-HPCDF	0.125	JB	0.0222	MDL	5.47	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0819	JBQ	0.0277	MDL	5.47	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.151	JBQ	0.0240	MDL	5.47	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.220	JB	0.0277	MDL	5.47	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.0740	JB	0.0228	MDL	5.47	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.136	JB	0.0249	MDL	5.47	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.104	JB	0.0197	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0673	JBQ	0.0119	MDL	5.47	PQL	ng/Kg	UJ	Q, B, FD
1,2,3,7,8-PECDF	0.0808	JB	0.0123	MDL	5.47	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.113	JB	0.0189	MDL	5.47	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.112	JB	0.0118	MDL	5.47	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0169	JQ	0.0103	MDL	1.09	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.0248	JBQ	0.0151	MDL	1.09	PQL	ng/Kg	UJ	Q, B, FD
OCDD	117	B	0.0333	MDL	10.9	PQL	ng/Kg	J	Q, Q, FD
OCDF	2.01	JB	0.0196	MDL	10.9	PQL	ng/Kg	J	Z, FD

Sample ID: SL-126-SA6-SB-4.0-5.0 *Collected:* 7/29/2011 11:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.361	JB	0.0218	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0826	JBQ	0.0116	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.172	JBQ	0.0178	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0317	JBQ	0.0138	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0611	JBQ	0.0108	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0495	JB	0.0141	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0322	JB	0.00969	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0521	JBQ	0.0141	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0447	JBQ	0.0119	MDL	5.26	PQL	ng/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: DX122 **Laboratory: LL**

EDD Filename: DX122_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-126-SA6-SB-4.0-5.0 *Collected:* 7/29/2011 11:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.0454	JBQ	0.0178	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0585	JB	0.0127	MDL	5.26	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0339	JBQ	0.0100	MDL	5.26	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0514	JBQ	0.0122	MDL	5.26	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0431	JQ	0.0249	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	0.935	JB	0.0236	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.153	JBQ	0.0275	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-126-SA6-SB-9.0-10.0 *Collected:* 7/29/2011 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
1,2,3,4,6,7,8-HPCDD	0.330	JBQ	0.0219	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0741	JB	0.0108	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0732	JBQ	0.0159	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0976	JBQ	0.0172	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0460	JBQ	0.0120	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0682	JBQ	0.0174	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0311	JBQ	0.0106	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0284	JBQ	0.0148	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0647	JB	0.0118	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0461	JB	0.0220	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0404	JBQ	0.0179	MDL	5.46	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0366	JB	0.0101	MDL	5.46	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0627	JBQ	0.0173	MDL	5.46	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0250	JQ	0.0227	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0460	JBQ	0.0244	MDL	1.09	PQL	ng/Kg	U	B
OCDD	0.918	JB	0.0254	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.155	JBQ	0.0288	MDL	10.9	PQL	ng/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: DX122 **Laboratory: LL**

EDD Filename: DX122_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DX122 **Laboratory: LL**

EDD Filename: DX122_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

Data Qualifier Summary

Lab Reporting Batch ID: DX122 **Laboratory: LL**

EDD Filename: DX122_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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX122

Method Blank Outlier Report

Lab Reporting Batch ID: DX122 **Laboratory: LL**

EDD Filename: DX122_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2270B371927	8/17/2011 7:27:00 PM	1,2,3,4,6,7,8-HPCDD	0.350 ng/Kg	DUP10-SA6-QC-072911
		1,2,3,4,6,7,8-HPCDF	0.0800 ng/Kg	SL-125-SA6-SB-20.0-21.0
		1,2,3,4,7,8,9-HPCDF	0.0569 ng/Kg	SL-125-SA6-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0289 ng/Kg	SL-126-SA6-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0452 ng/Kg	SL-128-SA8-SB-9.0-10.0
		1,2,3,6,7,8-HXCDD	0.0381 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0344 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0357 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0602 ng/Kg	
		1,2,3,7,8-PECDD	0.0360 ng/Kg	
		1,2,3,7,8-PECDF	0.0263 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0392 ng/Kg	
		2,3,4,7,8-PECDF	0.0673 ng/Kg	
		2,3,7,8-TCDF	0.0326 ng/Kg	
		OCDD	0.710 ng/Kg	
		OCDF	0.140 ng/Kg	

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
DUP10-SA6-QC-072911(RES)	1,2,3,7,6,9-HXCDF	0.171 ng/Kg	0.171U ng/Kg
SL-125-SA6-SB-20.0-21.0(RES)	1,2,3,7,8,9-HXCDF	0.163 ng/Kg	0.183U ng/Kg
SL-125-SA6-SB-20.0-21.0(RES)	1,2,3,7,8-PECDD	0.118 ng/Kg	0.118U ng/Kg
SL-125-SA6-SB-20.0-21.0(RES)	2,3,4,7,8-PECDF	0.245 ng/Kg	0.245U ng/Kg
SL-125-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.125 ng/Kg	0.125U ng/Kg
SL-125-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0819 ng/Kg	0.0819U ng/Kg
SL-125-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.151 ng/Kg	0.151U ng/Kg
SL-125-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0740 ng/Kg	0.0740U ng/Kg
SL-125-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.136 ng/Kg	0.136U ng/Kg
SL-125-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.104 ng/Kg	0.104U ng/Kg
SL-125-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0673 ng/Kg	0.0673U ng/Kg
SL-125-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0808 ng/Kg	0.0808U ng/Kg
SL-125-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.113 ng/Kg	0.113U ng/Kg
SL-125-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.112 ng/Kg	0.112U ng/Kg
SL-125-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0248 ng/Kg	0.0248U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.361 ng/Kg	0.361U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0826 ng/Kg	0.0826U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.172 ng/Kg	0.172U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0317 ng/Kg	0.0317U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0611 ng/Kg	0.0611U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0495 ng/Kg	0.0495U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0322 ng/Kg	0.0322U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0521 ng/Kg	0.0521U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0447 ng/Kg	0.0447U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0454 ng/Kg	0.0454U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0585 ng/Kg	0.0585U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0339 ng/Kg	0.0339U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0514 ng/Kg	0.0514U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	OCDD	0.935 ng/Kg	0.935U ng/Kg

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

Method Blank Outlier Report

Lab Reporting Batch ID: DX122 **Laboratory: LL**

EDD Filename: DX122_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-126-SA6-SB-4.0-5.0(RES)	OCDF	0.153 ng/Kg	0.153U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.330 ng/Kg	0.330U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0741 ng/Kg	0.0741U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0732 ng/Kg	0.0732U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0976 ng/Kg	0.0976U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0460 ng/Kg	0.0460U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0682 ng/Kg	0.0682U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0311 ng/Kg	0.0311U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0284 ng/Kg	0.0284U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0647 ng/Kg	0.0647U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0461 ng/Kg	0.0461U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0404 ng/Kg	0.0404U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0366 ng/Kg	0.0366U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0627 ng/Kg	0.0627U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0460 ng/Kg	0.0460U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	OCDD	0.918 ng/Kg	0.918U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	OCDF	0.155 ng/Kg	0.155U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX122 **Laboratory: LL**

EDD Filename: DX122_v1. **eQAPP Name: CDM_SSFL_110509**

***Method:* 1613B**
***Matrix:* SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-125-SA6-SB-4.0-5.0MS SL-125-SA6-SB-4.0-5.0MSD (SL-125-SA6-SB-4.0-5.0)	1,2,3,4,6,7,8-HPCDD	151	-	40.00-135.00	45 (20.00)	1,2,3,4,6,7,8-HPCDD	J (all detects)
	1,2,3,7,8-PECDD	-	-	40.00-135.00	40 (20.00)	1,2,3,7,8-PECDD	
	2,3,7,8-TCDF	-	-	40.00-135.00	22 (20.00)	2,3,7,8-TCDF	
	OCDD	157	-	40.00-135.00	36 (20.00)	OCDD	

Reporting Limit Outliers

Lab Reporting Batch ID: DX122 **Laboratory: LL**

EDD Filename: DX122_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA6-QC-072911	1,2,3,4,7,8,9-HPCDF	JB	0.882	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.641	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.752	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.24	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.412	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.823	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.171	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.197	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.13	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.594	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.357	5.59	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.113	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.754	1.12	PQL	ng/Kg	
SL-125-SA6-SB-20.0-21.0	1,2,3,4,6,7,8-HPCDF	JB	3.06	5.60	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.449	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.168	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.760	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.574	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.306	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.321	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.183	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.118	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.978	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.466	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.245	5.60	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.520	1.12	PQL	ng/Kg	
	OCDF	JB	5.60	11.2	PQL	ng/Kg	
SL-125-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	0.791	5.47	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.125	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0819	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.151	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.220	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0740	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.136	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.104	5.47	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0673	5.47	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0808	5.47	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.113	5.47	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.112	5.47	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0169	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0248	1.09	PQL	ng/Kg	
	OCDF	JB	2.01	10.9	PQL	ng/Kg	
SL-126-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.361	5.26	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0826	5.26	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.172	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0317	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0611	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0495	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0322	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0521	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0447	5.26	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0454	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0585	5.26	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0339	5.26	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0514	5.26	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0431	1.05	PQL	ng/Kg	
	OCDD	JB	0.935	10.5	PQL	ng/Kg	
	OCDF	JBQ	0.153	10.5	PQL	ng/Kg	

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

Reporting Limit Outliers

Lab Reporting Batch ID: DX122 **Laboratory: LL**

EDD Filename: DX122_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-126-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.330	5.46	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0741	5.46	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0732	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0976	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0460	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0682	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0311	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0284	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0647	5.46	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0461	5.46	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0404	5.46	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0366	5.46	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0627	5.46	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0250	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0460	1.09	PQL	ng/Kg	
	OCDD	JB	0.918	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.155	10.9	PQL	ng/Kg	

Field Duplicate RPD Report

Lab Reporting Batch ID: DX122 Laboratory: LL

EDD Filename: DX122_v1. eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
MOISTURE	8.6	12.0	33		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
1,2,3,7,8,9-HXCDF	0.104	0.171	49	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDD	12.2	116	162	50.00	
1,2,3,4,6,7,8-HPCDF	0.791	8.48	166	50.00	
1,2,3,4,7,8,9-HPCDF	0.125	0.882	150	50.00	
1,2,3,4,7,8-HxCDD	0.0819	0.641	155	50.00	
1,2,3,4,7,8-HXCDF	0.151	0.752	133	50.00	
1,2,3,6,7,8-HXCDD	0.220	2.24	164	50.00	
1,2,3,6,7,8-HXCDF	0.0740	0.412	139	50.00	
1,2,3,7,8,9-HXCDD	0.136	0.823	143	50.00	J(all detects)
1,2,3,7,8-PECDD	0.0673	0.197	98	50.00	
1,2,3,7,8-PECDF	0.0808	1.13	173	50.00	
2,3,4,6,7,8-HXCDF	0.113	0.594	136	50.00	
2,3,4,7,8-PECDF	0.112	0.357	104	50.00	
2,3,7,8-TCDD	0.0169	0.113	148	50.00	
2,3,7,8-TCDF	0.0248	0.754	187	50.00	
OCDD	117	1540	172	50.00	
OCDF	2.01	23.2	168	50.00	

SAMPLE DELIVERY GROUP

DX123

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-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361794	N	METHOD	1613B	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361795	N	METHOD	1613B	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361788	N	METHOD	1613B	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361789	N	METHOD	1613B	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361796	N	METHOD	1613B	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361786	N	METHOD	1613B	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361787	N	METHOD	1613B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361790	N	METHOD	1613B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361791	MS	METHOD	1613B	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361797	FD	METHOD	1613B	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361793	N	METHOD	1613B	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363178	N	METHOD	1613B	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363172	N	METHOD	1613B	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363176	N	METHOD	1613B	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363177	N	METHOD	1613B	III
02-Aug-2011	EB-SA6-SB-080211	6363175	EB	METHOD	1613B	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363173	N	METHOD	1613B	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363174	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: AQ**

Sample ID: EB-SA6-SB-080211 *Collected:* 8/2/2011 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
1,2,3,4,6,7,8-HPCDD	3.60	JBQ	0.181	MDL	10.4	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.333	JB	0.0620	MDL	10.4	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.121	JBQ	0.0716	MDL	10.4	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.177	JBQ	0.0557	MDL	10.4	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.255	JBQ	0.132	MDL	10.4	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.189	JBQ	0.118	MDL	10.4	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.0584	JBQ	0.0577	MDL	10.4	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.117	JBQ	0.0969	MDL	10.4	PQL	pg/L	U	B
2,3,7,8-TCDF	0.136	JQ	0.133	MDL	2.07	PQL	pg/L	J	Z
OCDD	7.82	JB	0.226	MDL	20.7	PQL	pg/L	U	B
OCDF	0.709	JBQ	0.182	MDL	20.7	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: DUP22-SA5DN-QC-080111 *Collected:* 8/1/2011 2:52:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.551	JB	0.0496	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.245	JBQ	0.0542	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.285	JB	0.0362	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.59	JB	0.0551	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.239	JB	0.0325	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.609	JB	0.0494	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.156	JBQ	0.0420	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.157	JBQ	0.0416	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.385	JB	0.0199	MDL	5.46	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.323	JB	0.0346	MDL	5.46	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.142	JB	0.0202	MDL	5.46	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0336	JB	0.0182	MDL	1.09	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0521	JBQ	0.0294	MDL	1.09	PQL	ng/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: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-127-SA6-SB-2.0-3.0 *Collected:* 8/1/2011 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
1,2,3,4,7,8,9-HPCDF	0.536	JB	0.0313	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.305	JB	0.0503	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	2.45	JB	0.0540	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.00	JB	0.0517	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.618	JB	0.0508	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.515	JB	0.0495	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.245	JB	0.0551	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.257	JB	0.0319	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	2.38	JB	0.0687	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.629	JB	0.0509	MDL	5.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0984	JB	0.0140	MDL	1.00	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.255	JB	0.129	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-128-SA6-SB-4.0-5.0 *Collected:* 8/2/2011 12:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.38	JB	0.0411	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.43	JB	0.0151	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.199	JB	0.0267	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0391	JBQ	0.0222	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.847	JB	0.0363	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.222	JB	0.0227	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.185	JB	0.0313	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.117	JB	0.0205	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0953	JB	0.0398	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0392	JBQ	0.0165	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0559	JBQ	0.0148	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.157	JB	0.0341	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.294	JBQ	0.0145	MDL	5.21	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0201	JBQ	0.0174	MDL	1.04	PQL	ng/Kg	U	B
OCDF	1.48	JB	0.0351	MDL	10.4	PQL	ng/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: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-128-SA6-SB-7.5-8.5 *Collected:* 8/2/2011 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.66	JB	0.0356	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.27	JB	0.0121	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.144	JB	0.0215	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0316	JB	0.0196	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.592	JB	0.0409	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.152	JB	0.0192	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.155	JB	0.0337	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.144	JBQ	0.0199	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.121	JBQ	0.0390	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0419	JBQ	0.0173	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0833	JBQ	0.0138	MDL	5.35	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.169	JB	0.0360	MDL	5.35	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.224	JB	0.0148	MDL	5.35	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0477	JBQ	0.0226	MDL	1.07	PQL	ng/Kg	U	B
OCDF	1.21	JB	0.0364	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-145-SA6-SB-3.5-4.5 *Collected:* 8/2/2011 8:28:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.247	JBQ	0.0171	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0462	JBQ	0.00527	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0211	JBQ	0.0110	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0141	JBQ	0.0125	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0196	JB	0.00883	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0242	JBQ	0.0127	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0239	JB	0.00721	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0504	JB	0.0121	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0509	JBQ	0.0100	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0335	JBQ	0.0140	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0219	JB	0.00947	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0125	JBQ	0.0101	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0392	JBQ	0.00990	MDL	5.30	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0154	JBQ	0.0137	MDL	1.06	PQL	ng/Kg	U	B
OCDD	0.711	JB	0.0233	MDL	10.6	PQL	ng/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: DX123 **Laboratory:** LL

EDD Filename: DX123_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-145-SA6-SB-3.5-4.5 *Collected:* 8/2/2011 8:28:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.110	JBQ	0.0228	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-160-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 8:46:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.305	JB	0.0193	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0524	JB	0.00608	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0455	JB	0.0125	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0343	JBQ	0.00946	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0207	JBQ	0.0151	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0316	JBQ	0.00800	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0490	JBQ	0.0135	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0438	JBQ	0.0114	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0179	JBQ	0.0179	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0293	JBQ	0.0109	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0225	JB	0.00912	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0411	JBQ	0.0116	MDL	5.54	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0214	JBQ	0.0173	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0173	JBQ	0.0164	MDL	1.11	PQL	ng/Kg	U	B
OCDD	0.896	JB	0.0298	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.176	JBQ	0.0304	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-162-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.395	JB	0.0258	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0600	JBQ	0.00769	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0411	JBQ	0.0161	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0249	JBQ	0.0144	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0792	JBQ	0.0175	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0243	JBQ	0.0118	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.168	JB	0.0151	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.311	JB	0.0172	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0438	JB	0.0231	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0989	JB	0.0140	MDL	5.50	PQL	ng/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: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-162-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.0323	JBQ	0.0134	MDL	5.50	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0534	JB	0.0153	MDL	5.50	PQL	ng/Kg	U	B
OCDD	1.56	JB	0.0318	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.185	JBQ	0.0479	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-162-SA5DN-SB-9.0-10.0 *Collected:* 8/2/2011 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
1,2,3,4,6,7,8-HPCDD	0.330	JB	0.0256	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0710	JB	0.00806	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0247	JB	0.0166	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0268	JB	0.0126	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0564	JB	0.0164	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0250	JB	0.0104	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0745	JB	0.0164	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0851	JB	0.0142	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0331	JBQ	0.0145	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0272	JB	0.0120	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0426	JBQ	0.0154	MDL	5.69	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0286	JBQ	0.0191	MDL	1.14	PQL	ng/Kg	U	B
OCDD	1.15	JB	0.0338	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.189	JBQ	0.0397	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-170-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 12:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.94	JB	0.0214	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.244	JB	0.0248	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.212	JB	0.0653	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.275	JB	0.0334	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.815	JB	0.0660	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.147	JB	0.0320	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.383	JB	0.0653	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.156	JB	0.0330	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.141	JBQ	0.0283	MDL	5.40	PQL	ng/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: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-170-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 12:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.345	JB	0.0267	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.157	JB	0.0318	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.143	JB	0.0256	MDL	5.40	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0351	JBQ	0.0162	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0903	JB	0.0455	MDL	1.08	PQL	ng/Kg	U	B
OCDF	4.55	JB	0.0266	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-170-SA5DN-SB-9.0-10.0 *Collected:* 8/1/2011 12:02:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.756	JB	0.0288	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.172	JB	0.00880	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0725	JBQ	0.0133	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0301	JB	0.0166	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.111	JB	0.0141	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0535	JBQ	0.0167	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0533	JB	0.0126	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0587	JBQ	0.0156	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0722	JBQ	0.0159	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0372	JBQ	0.0216	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.152	JBQ	0.0133	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0420	JBQ	0.0133	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0538	JBQ	0.0140	MDL	5.53	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0313	JBQ	0.0289	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0621	JBQ	0.0265	MDL	1.11	PQL	ng/Kg	U	B
OCDD	10.4	JB	0.0248	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.418	JB	0.0310	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-173-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 10:03:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.09	JB	0.0273	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.195	JB	0.0109	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0442	JBQ	0.0176	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0483	JBQ	0.0130	MDL	5.67	PQL	ng/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: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-173-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 10:03:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.0690	JBQ	0.0193	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0460	JBQ	0.0110	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0732	JBQ	0.0177	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0486	JBQ	0.0128	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0635	JBQ	0.0181	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0423	JBQ	0.0134	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0363	JB	0.0120	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0547	JB	0.0148	MDL	5.67	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0230	JBQ	0.0224	MDL	1.13	PQL	ng/Kg	U	B
OCDD	8.99	JB	0.0218	MDL	11.3	PQL	ng/Kg	J	Z
OCDF	0.497	JB	0.0321	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-173-SA5DN-SB-9.0-10.0 *Collected:* 8/1/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.964	JB	0.0278	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.151	JB	0.0101	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0524	JBQ	0.0165	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0302	JBQ	0.0167	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0392	JBQ	0.0141	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0682	JB	0.0172	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0345	JBQ	0.0119	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0596	JBQ	0.0159	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0316	JBQ	0.0150	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0504	JBQ	0.0315	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0425	JBQ	0.0135	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0665	JBQ	0.0150	MDL	5.68	PQL	ng/Kg	U	B
OCDD	7.55	JB	0.0248	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.380	JBQ	0.0316	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.497	JB	0.0428	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.368	JB	0.0441	MDL	5.37	PQL	ng/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: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.337	JB	0.0384	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.93	JB	0.0447	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.298	JB	0.0367	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.813	JB	0.0448	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.180	JB	0.0371	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.231	JB	0.0340	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.578	JB	0.0267	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.399	JB	0.0362	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.355	JB	0.0257	MDL	5.37	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0418	JB	0.0193	MDL	1.07	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0596	JB	0.0379	MDL	1.07	PQL	ng/Kg	U	B

Sample ID: SL-175-SA5DN-SB-9.0-10.0 *Collected:* 8/1/2011 2:53:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.834	JB	0.0211	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.150	JB	0.0314	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.135	JB	0.0339	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.129	JB	0.0308	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.397	JB	0.0352	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.125	JB	0.0276	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.189	JB	0.0341	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.135	JBQ	0.0302	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.150	JBQ	0.0280	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.135	JB	0.0137	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.149	JB	0.0295	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.170	JBQ	0.0140	MDL	5.67	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0323	JB	0.0189	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0305	JBQ	0.0226	MDL	1.13	PQL	ng/Kg	U	B
OCDF	2.11	JB	0.0370	MDL	11.3	PQL	ng/Kg	J	Z

Sample ID: SL-176-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 8:21:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.33	JB	0.0502	MDL	5.39	PQL	ng/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: DX123 **Laboratory:** LL

EDD Filename: DX123_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-176-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 8:21:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.776	JB	0.0563	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.532	JB	0.0499	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	5.10	JB	0.0570	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.628	JB	0.0453	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.75	JB	0.0509	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.260	JB	0.0520	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.440	JB	0.0553	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.328	JB	0.0251	MDL	5.39	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.865	JB	0.0465	MDL	5.39	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.299	JBQ	0.0254	MDL	5.39	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0319	JBQ	0.0203	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0880	JBQ	0.0407	MDL	1.08	PQL	ng/Kg	U	B

Sample ID: SL-176-SA5DN-SB-9.0-10.0 *Collected:* 8/1/2011 8:23:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.80	JB	0.0192	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.238	JB	0.0345	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.106	JB	0.0458	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0946	JB	0.0270	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.560	JB	0.0462	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0952	JB	0.0234	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.216	JB	0.0439	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0689	JBQ	0.0311	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.102	JBQ	0.0282	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.103	JB	0.0135	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.135	JBQ	0.0266	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0864	JBQ	0.0142	MDL	5.60	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0268	JB	0.0154	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0243	JB	0.0194	MDL	1.12	PQL	ng/Kg	U	B
OCDF	4.52	JB	0.0369	MDL	11.2	PQL	ng/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: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_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

Data Qualifier Summary

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX123

Method Blank Outlier Report

Lab Reporting Batch ID: DX123 Laboratory: LL

EDD Filename: DX123_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2200B371122	8/10/2011 11:22:00 AM	1,2,3,4,6,7,8-HPCDD	3.70 pg/L	EB-SA6-SB-080211
		1,2,3,4,6,7,8-HPCDF	0.669 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.287 pg/L	
		1,2,3,4,7,8-HXCDF	0.230 pg/L	
		1,2,3,6,7,8-HXCDD	0.448 pg/L	
		1,2,3,7,8,9-HXCDD	0.265 pg/L	
		1,2,3,7,8,9-HXCDF	0.242 pg/L	
		1,2,3,7,8-PECDD	0.290 pg/L	
		1,2,3,7,8-PECDF	0.198 pg/L	
		2,3,4,6,7,8-HXCDF	0.227 pg/L	
		2,3,4,7,8-PECDF	0.517 pg/L	
		OCDD	9.52 pg/L	
		OCDF	1.03 pg/L	

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-080211(RES)	1,2,3,4,6,7,8-HPCDD	3.60 pg/L	3.60U pg/L
EB-SA6-SB-080211(RES)	1,2,3,4,6,7,8-HPCDF	0.333 pg/L	0.333U pg/L
EB-SA6-SB-080211(RES)	1,2,3,4,7,8,9-HPCDF	0.121 pg/L	0.121U pg/L
EB-SA6-SB-080211(RES)	1,2,3,4,7,8-HXCDF	0.177 pg/L	0.177U pg/L
EB-SA6-SB-080211(RES)	1,2,3,6,7,8-HXCDD	0.255 pg/L	0.255U pg/L
EB-SA6-SB-080211(RES)	1,2,3,7,8,9-HXCDD	0.189 pg/L	0.189U pg/L
EB-SA6-SB-080211(RES)	1,2,3,7,8,9-HXCDF	0.0584 pg/L	0.0584U pg/L
EB-SA6-SB-080211(RES)	1,2,3,7,6-PECDF	0.117 pg/L	0.117U pg/L
EB-SA6-SB-080211(RES)	OCDD	7.82 pg/L	7.82U pg/L
EB-SA6-SB-080211(RES)	OCDF	0.709 pg/L	0.709U pg/L

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2270B370700	8/18/2011 7:00:00 AM	1,2,3,4,6,7,8-HPCDD	0.291 ng/Kg	DUP22-SA5DN-QC-080111
		1,2,3,4,6,7,8-HPCDF	0.0805 ng/Kg	SL-127-SA6-SB-2.0-3.0
		1,2,3,4,7,8,9-HPCDF	0.0937 ng/Kg	SL-128-SA6-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0633 ng/Kg	SL-128-SA6-SB-7.5-8.5
		1,2,3,4,7,8-HXCDF	0.0930 ng/Kg	SL-145-SA6-SB-3.5-4.5
		1,2,3,6,7,8-HXCDD	0.0625 ng/Kg	SL-160-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0813 ng/Kg	SL-162-SA5DN-SB-4.0-5.0
		1,2,3,7,8,9-HXCDD	0.0795 ng/Kg	SL-162-SA5DN-SB-9.0-10.0
		1,2,3,7,8,9-HXCDF	0.0433 ng/Kg	SL-170-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDD	0.117 ng/Kg	SL-170-SA5DN-SB-9.0-10.0
		1,2,3,7,8-PECDF	0.135 ng/Kg	SL-173-SA5DN-SB-4.0-5.0
		2,3,4,6,7,8-HXCDF	0.0641 ng/Kg	SL-173-SA5DN-SB-9.0-10.0
		2,3,4,7,8-PECDF	0.133 ng/Kg	SL-175-SA5DN-SB-4.0-5.0
		2,3,7,8-TCDD	0.0389 ng/Kg	SL-175-SA5DN-SB-9.0-10.0
		2,3,7,8-TCDF	0.0485 ng/Kg	SL-176-SA5DN-SB-4.0-5.0
		OCDD	0.620 ng/Kg	SL-176-SA5DN-SB-9.0-10.0
		OCDF	0.171 ng/Kg	

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
DUP22-SA5DN-QC-080111(RES)	1,2,3,4,7,8-HxCDD	0.245 ng/Kg	0.245U ng/Kg

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

Method Blank Outlier Report

Lab Reporting Batch ID: DX123 Laboratory: LL

EDD Filename: DX123_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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
DUP22-SA5DN-QC-080111(RES)	1,2,3,4,7,8-HXCDF	0.285 ng/Kg	0.285U ng/Kg
DUP22-SA5DN-QC-080111(RES)	1,2,3,6,7,8-HXCDF	0.239 ng/Kg	0.239U ng/Kg
DUP22-SA5DN-QC-080111(RES)	1,2,3,7,8,9-HXCDF	0.156 ng/Kg	0.156U ng/Kg
DUP22-SA5DN-QC-080111(RES)	1,2,3,7,8-PECDD	0.157 ng/Kg	0.157U ng/Kg
DUP22-SA5DN-QC-080111(RES)	1,2,3,7,8-PECDF	0.385 ng/Kg	0.385U ng/Kg
DUP22-SA5DN-QC-080111(RES)	2,3,4,7,8-PECDF	0.142 ng/Kg	0.142U ng/Kg
DUP22-SA5DN-QC-080111(RES)	2,3,7,8-TCDD	0.0336 ng/Kg	0.0336U ng/Kg
DUP22-SA5DN-QC-080111(RES)	2,3,7,8-TCDF	0.0521 ng/Kg	0.0521U ng/Kg
SL-127-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.305 ng/Kg	0.305U ng/Kg
SL-127-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.257 ng/Kg	0.257U ng/Kg
SL-127-SA6-SB-2.0-3.0(RES)	2,3,7,8-TCDD	0.0984 ng/Kg	0.0984U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.199 ng/Kg	0.199U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0391 ng/Kg	0.0391U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.222 ng/Kg	0.222U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.185 ng/Kg	0.185U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.117 ng/Kg	0.117U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0953 ng/Kg	0.0953U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0392 ng/Kg	0.0392U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0559 ng/Kg	0.0559U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.157 ng/Kg	0.157U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.294 ng/Kg	0.294U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0201 ng/Kg	0.0201U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,4,7,8,9-HPCDF	0.144 ng/Kg	0.144U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,4,7,8-HxCDD	0.0316 ng/Kg	0.0316U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDD	0.152 ng/Kg	0.152U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDF	0.155 ng/Kg	0.155U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDD	0.144 ng/Kg	0.144U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDF	0.121 ng/Kg	0.121U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,7,8-PECDD	0.0419 ng/Kg	0.0419U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,7,8-PECDF	0.0833 ng/Kg	0.0833U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	2,3,4,6,7,8-HXCDF	0.169 ng/Kg	0.169U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	2,3,4,7,8-PECDF	0.224 ng/Kg	0.224U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	2,3,7,8-TCDF	0.0477 ng/Kg	0.0477U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.247 ng/Kg	0.247U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0462 ng/Kg	0.0462U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0211 ng/Kg	0.0211U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8-HxCDD	0.0141 ng/Kg	0.0141U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8-HXCDF	0.0196 ng/Kg	0.0196U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDD	0.0242 ng/Kg	0.0242U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDF	0.0239 ng/Kg	0.0239U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-145-SA6-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDD	0.0504 ng/Kg	0.0504U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDF	0.0509 ng/Kg	0.0509U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.0335 ng/Kg	0.0335U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,7,8-PECDF	0.0219 ng/Kg	0.0219U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	2,3,4,6,7,8-HXCDF	0.0125 ng/Kg	0.0125U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.0392 ng/Kg	0.0392U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	2,3,7,8-TCDF	0.0154 ng/Kg	0.0154U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	OCDD	0.711 ng/Kg	0.711U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	OCDF	0.110 ng/Kg	0.110U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.305 ng/Kg	0.305U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0524 ng/Kg	0.0524U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0455 ng/Kg	0.0455U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0343 ng/Kg	0.0343U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0207 ng/Kg	0.0207U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0316 ng/Kg	0.0316U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0490 ng/Kg	0.0490U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0438 ng/Kg	0.0438U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0179 ng/Kg	0.0179U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0293 ng/Kg	0.0293U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0225 ng/Kg	0.0225U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0411 ng/Kg	0.0411U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0214 ng/Kg	0.0214U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0173 ng/Kg	0.0173U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	OCDD	0.898 ng/Kg	0.896U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	OCDF	0.176 ng/Kg	0.176U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.395 ng/Kg	0.395U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0600 ng/Kg	0.0600U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0411 ng/Kg	0.0411U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0249 ng/Kg	0.0249U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0792 ng/Kg	0.0792U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0243 ng/Kg	0.0243U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.168 ng/Kg	0.168U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0438 ng/Kg	0.0438U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0989 ng/Kg	0.0989U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0323 ng/Kg	0.0323U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0534 ng/Kg	0.0534U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	OCDD	1.56 ng/Kg	1.56U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	OCDF	0.185 ng/Kg	0.185U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.330 ng/Kg	0.330U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0710 ng/Kg	0.0710U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0247 ng/Kg	0.0247U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0268 ng/Kg	0.0268U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0564 ng/Kg	0.0564U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0250 ng/Kg	0.0250U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0745 ng/Kg	0.0745U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0851 ng/Kg	0.0851U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0331 ng/Kg	0.0331U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0272 ng/Kg	0.0272U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0426 ng/Kg	0.0426U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0286 ng/Kg	0.0286U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	OCDD	1.15 ng/Kg	1.15U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	OCDF	0.189 ng/Kg	0.189U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.244 ng/Kg	0.244U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.212 ng/Kg	0.212U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.275 ng/Kg	0.275U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.147 ng/Kg	0.147U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.383 ng/Kg	0.383U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.156 ng/Kg	0.156U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.141 ng/Kg	0.141U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.345 ng/Kg	0.345U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.157 ng/Kg	0.157U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.143 ng/Kg	0.143U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0351 ng/Kg	0.0351U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0903 ng/Kg	0.0903U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,6-HPCDD	0.756 ng/Kg	0.756U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.172 ng/Kg	0.172U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0725 ng/Kg	0.0725U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0301 ng/Kg	0.0301U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.111 ng/Kg	0.111U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0535 ng/Kg	0.0535U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0533 ng/Kg	0.0533U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0587 ng/Kg	0.0587U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0722 ng/Kg	0.0722U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0372 ng/Kg	0.0372U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.152 ng/Kg	0.152U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0420 ng/Kg	0.0420U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0538 ng/Kg	0.0538U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0313 ng/Kg	0.0313U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0621 ng/Kg	0.0621U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	OCDF	0.418 ng/Kg	0.418U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.09 ng/Kg	1.09U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.195 ng/Kg	0.195U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0442 ng/Kg	0.0442U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0483 ng/Kg	0.0483U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0690 ng/Kg	0.0690U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0460 ng/Kg	0.0460U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0732 ng/Kg	0.0732U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0486 ng/Kg	0.0486U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0635 ng/Kg	0.0635U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0423 ng/Kg	0.0423U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	2,3,4,8,7,8-HXCDF	0.0363 ng/Kg	0.0363U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0547 ng/Kg	0.0547U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0230 ng/Kg	0.0230U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	OCDF	0.497 ng/Kg	0.497U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.964 ng/Kg	0.964U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.151 ng/Kg	0.151U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0524 ng/Kg	0.0524U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0302 ng/Kg	0.0302U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0392 ng/Kg	0.0392U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0682 ng/Kg	0.0682U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0345 ng/Kg	0.0345U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0596 ng/Kg	0.0596U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0316 ng/Kg	0.0316U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0504 ng/Kg	0.0504U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0425 ng/Kg	0.0425U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0665 ng/Kg	0.0665U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	OCDF	0.380 ng/Kg	0.380U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.337 ng/Kg	0.337U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.298 ng/Kg	0.298U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.180 ng/Kg	0.180U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.231 ng/Kg	0.231U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.578 ng/Kg	0.578U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.355 ng/Kg	0.355U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0418 ng/Kg	0.0418U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0596 ng/Kg	0.0596U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.150 ng/Kg	0.150U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.135 ng/Kg	0.135U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.129 ng/Kg	0.129U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.125 ng/Kg	0.125U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.189 ng/Kg	0.189U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX123 Laboratory: LL

EDD Filename: DX123_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.150 ng/Kg	0.150U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.135 ng/Kg	0.135U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.149 ng/Kg	0.149U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.170 ng/Kg	0.170U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0323 ng/Kg	0.0323U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0305 ng/Kg	0.0305U ng/Kg
SL-176-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.440 ng/Kg	0.440U ng/Kg
SL-176-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.328 ng/Kg	0.328U ng/Kg
SL-176-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.299 ng/Kg	0.299U ng/Kg
SL-176-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0319 ng/Kg	0.0319U ng/Kg
SL-176-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0880 ng/Kg	0.0880U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.238 ng/Kg	0.238U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.106 ng/Kg	0.106U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0946 ng/Kg	0.0946U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0952 ng/Kg	0.0952U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.216 ng/Kg	0.216U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0689 ng/Kg	0.0689U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.102 ng/Kg	0.102U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.103 ng/Kg	0.103U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0864 ng/Kg	0.0864U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0268 ng/Kg	0.0268U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0243 ng/Kg	0.0243U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
MOISTURE	9.2	9.2	0		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
1,2,3,4,6,7,8-HPCDD	48.0	40.8	16	50.00	
1,2,3,4,6,7,8-HPCDF	6.13	5.67	8	50.00	
1,2,3,4,7,8,9-HPCDF	0.497	0.551	10	50.00	
1,2,3,4,7,8-HxCDD	0.368	0.245	40	50.00	
1,2,3,4,7,8-HXCDF	0.337	0.285	17	50.00	
1,2,3,6,7,8-HXCDD	1.93	1.59	19	50.00	
1,2,3,6,7,8-HXCDF	0.298	0.239	22	50.00	
1,2,3,7,8,9-HXCDD	0.813	0.609	29	50.00	
1,2,3,7,8,9-HXCDF	0.180	0.156	14	50.00	No Qualifiers Applied
1,2,3,7,8-PECDD	0.231	0.157	38	50.00	
1,2,3,7,8-PECDF	0.578	0.385	40	50.00	
2,3,4,6,7,8-HXCDF	0.399	0.323	21	50.00	
2,3,7,8-TCDD	0.0418	0.0336	22	50.00	
2,3,7,8-TCDF	0.0596	0.0521	13	50.00	
OCDD	565	413	31	50.00	
OCDF	15.7	16.9	7	50.00	
2,3,4,7,8-PECDF	0.355	0.142	86	50.00	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080211	1,2,3,4,6,7,8-HPCDD	JBQ	3.60	10.4	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	0.333	10.4	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.121	10.4	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.177	10.4	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.255	10.4	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.189	10.4	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0584	10.4	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.117	10.4	PQL	pg/L	
	2,3,7,8-TCDF	JQ	0.136	2.07	PQL	pg/L	
	OCDD	JB	7.82	20.7	PQL	pg/L	
	OCDF	JBQ	0.709	20.7	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	1,2,3,4,7,8,9-HPCDF	JB	0.551	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.245	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.285	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.59	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.239	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.609	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.156	5.46	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.157	5.46	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.385	5.46	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.323	5.46	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.142	5.46	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0336	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0521	1.09	PQL	ng/Kg	
SL-127-SA6-SB-2.0-3.0	1,2,3,4,7,8,9-HPCDF	JB	0.536	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.305	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.45	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.00	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.618	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.515	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.245	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.257	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.38	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.629	5.00	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0984	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.255	1.00	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	4.38	5.21	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.43	5.21	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.199	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0391	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.847	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.222	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.185	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.117	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0953	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0392	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0559	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.157	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.294	5.21	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0201	1.04	PQL	ng/Kg	
	OCDF	JB	1.48	10.4	PQL	ng/Kg	
SL-128-SA6-SB-7.5-8.5	1,2,3,4,6,7,8-HPCDD	JB	2.66	5.35	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.27	5.35	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.144	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0316	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.592	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.152	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.155	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.144	5.35	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.121	5.35	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0419	5.35	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0833	5.35	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.169	5.35	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.224	5.35	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0477	1.07	PQL	ng/Kg	
	OCDF	JB	1.21	10.7	PQL	ng/Kg	
SL-145-SA6-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.247	5.30	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0462	5.30	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0211	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0141	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0196	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0242	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0239	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0504	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0509	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0335	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0219	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0125	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0392	5.30	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0154	1.06	PQL	ng/Kg	
	OCDD	JB	0.711	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.110	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-160-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.305	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0524	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0455	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0343	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0207	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0316	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0490	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0438	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0179	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0293	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0225	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0411	5.54	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0214	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0173	1.11	PQL	ng/Kg	
	OCDD	JB	0.896	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.176	11.1	PQL	ng/Kg	
SL-162-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.395	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0600	5.50	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0411	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0249	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0792	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0243	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.168	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.311	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0438	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0989	5.50	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0323	5.50	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0534	5.50	PQL	ng/Kg	
	OCDD	JB	1.56	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.185	11.0	PQL	ng/Kg	
SL-162-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.330	5.69	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0710	5.69	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0247	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0268	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0564	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0250	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0745	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0851	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0331	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0272	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0426	5.69	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0286	1.14	PQL	ng/Kg	
	OCDD	JB	1.15	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.189	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-170-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.94	5.40	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.244	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.212	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.275	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.815	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.147	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.383	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.156	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.141	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.345	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.157	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.143	5.40	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0351	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0903	1.08	PQL	ng/Kg	
	OCDF	JB	4.55	10.8	PQL	ng/Kg	
SL-170-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.756	5.53	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.172	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0725	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0301	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.111	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0535	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0533	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0587	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0722	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0372	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.152	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0420	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0538	5.53	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0313	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0621	1.11	PQL	ng/Kg	
	OCDD	JB	10.4	11.1	PQL	ng/Kg	
	OCDF	JB	0.418	11.1	PQL	ng/Kg	
SL-173-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.09	5.67	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.195	5.67	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0442	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0483	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0690	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0460	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0732	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0486	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0635	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0423	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0363	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0547	5.67	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0230	1.13	PQL	ng/Kg	
	OCDD	JB	8.99	11.3	PQL	ng/Kg	
	OCDF	JB	0.497	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-173-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.964	5.68	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.151	5.68	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0524	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0302	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0392	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0682	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0345	5.68	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.0596	5.68	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0316	5.68	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0504	5.68	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0425	5.68	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0665	5.68	PQL	ng/Kg	
	OCDD	JB	7.55	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.380	11.4	PQL	ng/Kg	
SL-175-SA5DN-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	0.497	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.368	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.337	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.93	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.298	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.813	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.180	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.231	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.578	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.399	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.355	5.37	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0418	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0596	1.07	PQL	ng/Kg	
SL-175-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	0.834	5.67	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.150	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.135	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.129	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.397	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.125	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.189	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.135	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.150	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.135	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.149	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.170	5.67	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0323	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0305	1.13	PQL	ng/Kg	
	OCDF	JB	2.11	11.3	PQL	ng/Kg	
SL-176-SA5DN-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	1.33	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.776	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.532	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	5.10	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.628	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.75	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.260	5.39	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.440	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.328	5.39	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.865	5.39	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.299	5.39	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0319	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0880	1.08	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-176-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	1.80	5.60	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.238	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.106	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0946	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.560	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0952	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.216	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0689	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.102	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.103	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.135	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0864	5.60	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0268	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0243	1.12	PQL	ng/Kg	
	OCDF	JB	4.52	11.2	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX124

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
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364636	N	METHOD	1613B	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364633	N	METHOD	1613B	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364634	N	METHOD	1613B	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364638	N	METHOD	1613B	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364635	N	METHOD	1613B	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364639	N	METHOD	1613B	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364637	EB	METHOD	1613B	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364640	N	METHOD	1613B	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364631	N	METHOD	1613B	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364632	N	METHOD	1613B	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364641	N	METHOD	1613B	III
04-Aug-2011	SL-204-SA5DN-SB-9.0-10.0	6366529	N	METHOD	1613B	III
04-Aug-2011	SL-204-SA5DN-SB-4.0-5.0	6366528	N	METHOD	1613B	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0	6366524	N	METHOD	1613B	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 M	6366525	MS	METHOD	1613B	III
04-Aug-2011	DUP23-SA5DN-QC-080411	6366530	FD	METHOD	1613B	III
04-Aug-2011	SL-189-SA5DN-SB-9.0-10.0	6366527	N	METHOD	1613B	III
04-Aug-2011	SL-185-SA5DN-SB-4.0-5.0	6366522	N	METHOD	1613B	III
04-Aug-2011	SL-185-SA5DN-SB-9.0-10.0	6366523	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX124 Laboratory: LL

EDD Filename: DX124_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB23-SA5DN-SB-080311 *Collected:* 8/3/2011 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
1,2,3,4,6,7,8-HPCDD	3.78	JBQ	0.257	MDL	11.2	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.491	JBQ	0.119	MDL	11.2	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.350	JBQ	0.135	MDL	11.2	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.216	JQ	0.190	MDL	11.2	PQL	pg/L	J	Z
1,2,3,4,7,8-HXCDF	0.211	JB	0.123	MDL	11.2	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.339	JBQ	0.204	MDL	11.2	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.263	JQ	0.109	MDL	11.2	PQL	pg/L	J	Z
1,2,3,7,8-PECDD	0.493	JBQ	0.264	MDL	11.2	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.557	JBQ	0.179	MDL	11.2	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.256	JBQ	0.118	MDL	11.2	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.634	JBQ	0.173	MDL	11.2	PQL	pg/L	U	B
OCDD	8.38	JB	0.413	MDL	22.4	PQL	pg/L	U	B
OCDF	0.812	JBQ	0.285	MDL	22.4	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.553	JB	0.0133	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0922	JB	0.00432	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0292	JB	0.0102	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0395	JB	0.0105	MDL	5.31	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.0860	JB	0.00787	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0993	JBQ	0.0111	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0697	JB	0.00643	MDL	5.31	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.163	JB	0.0108	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.193	JB	0.00965	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0762	JB	0.0110	MDL	5.31	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.178	JB	0.00654	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0467	JB	0.00765	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.125	JB	0.00698	MDL	5.31	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0290	JQ	0.00942	MDL	1.06	PQL	ng/Kg	J	Z, FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.0436	JB	0.0120	MDL	1.06	PQL	ng/Kg	UJ	B, FD
OCDD	5.41	JB	0.0116	MDL	10.6	PQL	ng/Kg	J	Z, FD
OCDF	0.251	JBQ	0.0195	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-002-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 2:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.99	JB	0.0170	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.983	JB	0.0267	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.126	JB	0.0238	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.521	JB	0.0226	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.31	JB	0.0249	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.305	JB	0.0214	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.496	JB	0.0231	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.174	JB	0.0269	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.209	JB	0.0225	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.13	JB	0.0175	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.358	JB	0.0212	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.812	JB	0.0177	MDL	5.53	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0335	J	0.0151	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.256	JB	0.0348	MDL	1.11	PQL	ng/Kg	J	Z

Sample ID: SL-002-SA6-SB-9.0-10.0 *Collected:* 8/3/2011 2:33:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.89	JB	0.0119	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.773	JB	0.0225	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0984	JB	0.0248	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.681	JB	0.0197	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.826	JB	0.0254	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.423	JB	0.0171	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.295	JB	0.0244	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.167	JB	0.0209	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0749	JB	0.0150	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	2.82	JB	0.0192	MDL	5.49	PQL	ng/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: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-002-SA6-SB-9.0-10.0 *Collected:* 8/3/2011 2:33:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.345	JB	0.0180	MDL	5.49	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.67	JB	0.0193	MDL	5.49	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0170	J	0.0102	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.323	JB	0.0384	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	10.8	JB	0.0202	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-003-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 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
1,2,3,4,6,7,8-HPCDF	2.73	JB	0.0131	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.560	JB	0.0261	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0728	JB	0.0212	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.319	JB	0.0210	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.650	JB	0.0213	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.212	JB	0.0177	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.268	JB	0.0207	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0997	JB	0.0234	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0835	JB	0.0152	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.409	JB	0.0155	MDL	5.85	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.229	JB	0.0185	MDL	5.85	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.505	JB	0.0159	MDL	5.85	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0327	J	0.0137	MDL	1.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0893	JB	0.0297	MDL	1.17	PQL	ng/Kg	U	B
OCDF	7.17	JB	0.0261	MDL	11.7	PQL	ng/Kg	J	Z

Sample ID: SL-003-SA6-SB-8.5-9.5 *Collected:* 8/3/2011 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
1,2,3,4,6,7,8-HPCDF	2.67	JB	0.0124	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.521	JB	0.0202	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0873	JB	0.0228	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.412	JB	0.0179	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.690	JB	0.0240	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.214	JB	0.0157	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.263	JB	0.0217	MDL	5.47	PQL	ng/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: DX124 Laboratory: LL

EDD Filename: DX124_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-003-SA6-SB-8.5-9.5 *Collected:* 8/3/2011 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
1,2,3,7,8,9-HXCDF	0.106	JBQ	0.0193	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0489	JB	0.0167	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.354	JB	0.0150	MDL	5.47	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.251	JB	0.0161	MDL	5.47	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.715	JB	0.0153	MDL	5.47	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0352	J	0.0121	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.264	JB	0.0312	MDL	1.09	PQL	ng/Kg	J	Z
OCDF	7.76	JB	0.0218	MDL	10.9	PQL	ng/Kg	J	Z

Sample ID: SL-004-SA6-SB-1.5-2.5 *Collected:* 8/3/2011 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
1,2,3,4,6,7,8-HPCDF	2.86	JB	0.0110	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.490	JB	0.0286	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0871	JB	0.0195	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.199	JB	0.0161	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.722	JB	0.0198	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.143	JBQ	0.0126	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.249	JB	0.0187	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0347	JBQ	0.0204	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0272	JBQ	0.0126	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0840	JB	0.00872	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.181	JB	0.0139	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.120	JB	0.00955	MDL	5.15	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0138	JQ	0.0113	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0152	JBQ	0.0116	MDL	1.03	PQL	ng/Kg	U	B
OCDF	8.66	JB	0.0304	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-011-SA6-SB-0.5-1.5 *Collected:* 8/3/2011 7:54:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.77	JB	0.0162	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.324	JB	0.00697	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0846	JB	0.0126	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0570	JB	0.0155	MDL	5.27	PQL	ng/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: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-011-SA6-SB-0.5-1.5 *Collected:* 8/3/2011 7:54:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.165	JB	0.0158	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.197	JB	0.0160	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0916	JB	0.0126	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.157	JB	0.0154	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0612	JB	0.0153	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.118	JBQ	0.0134	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0907	JB	0.00954	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0810	JB	0.0120	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.371	JB	0.0101	MDL	5.27	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0383	J	0.0108	MDL	1.05	PQL	ng/Kg	J	Z
OCDF	0.657	JB	0.0208	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-185-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 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
1,2,3,4,6,7,8-HPCDD	0.411	JB	0.0141	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0610	JBQ	0.00459	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0534	JB	0.0148	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0172	JBQ	0.0103	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0240	JB	0.00781	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0521	JBQ	0.0108	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0204	JBQ	0.00586	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0612	JBQ	0.0102	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0932	JBQ	0.00999	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0146	JB	0.0103	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0223	JBQ	0.00608	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0216	JB	0.00700	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0530	JB	0.00700	MDL	5.72	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0159	J	0.0117	MDL	1.14	PQL	ng/Kg	J	Z
OCDD	1.18	JB	0.0118	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.194	JBQ	0.0347	MDL	11.4	PQL	ng/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: DX124 **Laboratory:** LL

EDD Filename: DX124_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-185-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 3:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.436	JB	0.0149	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0605	JB	0.00411	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0455	JBQ	0.0131	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0288	JBQ	0.00651	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0143	JBQ	0.00926	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0141	JBQ	0.00491	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0348	JBQ	0.00846	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0383	JB	0.00857	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0205	JBQ	0.00926	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0136	JB	0.00526	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0127	JBQ	0.00549	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0385	JB	0.00617	MDL	5.71	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0114	JBQ	0.0106	MDL	1.14	PQL	ng/Kg	U	B
OCDD	2.94	JB	0.0127	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.303	JB	0.0337	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-188-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 10:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.516	JB	0.0146	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.147	JB	0.00529	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0849	JB	0.0144	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.154	JB	0.0112	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.263	JB	0.0112	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.170	JB	0.0116	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.214	JB	0.00863	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.152	JB	0.0112	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.200	JB	0.0148	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.298	JB	0.0136	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.352	JB	0.00725	MDL	5.73	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.147	JB	0.0100	MDL	5.73	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.339	JB	0.00806	MDL	5.73	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0952	J	0.0131	MDL	1.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.105	JB	0.0139	MDL	1.15	PQL	ng/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: DX124 **Laboratory:** LL

EDD Filename: DX124_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-188-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 10:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	1.93	JB	0.0129	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.295	JB	0.0255	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-188-SA5DN-SB-9.0-10.0 *Collected:* 8/3/2011 11:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.904	JB	0.0162	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.203	JB	0.00538	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0855	JB	0.0155	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.106	JB	0.0115	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.239	JB	0.0127	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.153	JB	0.0123	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.183	JB	0.00974	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.182	JB	0.0118	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.218	JBQ	0.0174	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.192	JB	0.0129	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.431	JB	0.00997	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.121	JB	0.0119	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.304	JB	0.0112	MDL	5.57	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0764	J	0.0115	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.137	JB	0.0246	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	6.68	JB	0.0136	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.445	JB	0.0304	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-189-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 10:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.535	JB	0.0142	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0913	JB	0.00418	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0461	JB	0.0142	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0112	JBQ	0.0111	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.0910	JB	0.0100	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0686	JB	0.0112	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0249	JB	0.00736	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.176	JB	0.0109	MDL	5.24	PQL	ng/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: DX124 Laboratory: LL

EDD Filename: DX124_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-189-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 10:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.227	JB	0.0138	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0182	JB	0.0120	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.231	JB	0.00978	MDL	5.24	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0404	JB	0.00868	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.115	JB	0.0113	MDL	5.24	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0108	U	0.0108	MDL	1.05	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.0754	JB	0.0241	MDL	1.05	PQL	ng/Kg	UJ	B, FD
OCDD	2.91	JB	0.0100	MDL	10.5	PQL	ng/Kg	J	Z, FD
OCDF	0.221	JB	0.0284	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-189-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 11:37:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.36	JB	0.0151	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.261	JB	0.00611	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.133	JB	0.0180	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0690	JBQ	0.0141	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.295	JB	0.0149	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.120	JB	0.0146	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.129	JB	0.0113	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.146	JB	0.0140	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.177	JB	0.0176	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.120	JB	0.0125	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.643	JB	0.0151	MDL	5.67	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.138	JB	0.0131	MDL	5.67	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.237	JB	0.0175	MDL	5.67	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0229	JQ	0.0110	MDL	1.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.188	JB	0.0385	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	8.78	JB	0.0136	MDL	11.3	PQL	ng/Kg	J	Z
OCDF	0.717	JB	0.0294	MDL	11.3	PQL	ng/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.81	JB	0.00879	MDL	5.56	PQL	ng/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: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-193-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.357	JB	0.0227	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.141	JB	0.0203	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.313	JB	0.0169	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.542	JB	0.0215	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.208	JB	0.0138	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.307	JB	0.0194	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.161	JB	0.0203	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.150	JB	0.0171	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.588	JB	0.0124	MDL	5.56	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.268	JB	0.0154	MDL	5.56	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.403	JB	0.0138	MDL	5.56	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0357	J	0.0126	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.167	JB	0.0345	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	8.65	JB	0.0326	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-9.0-10.0 *Collected:* 8/3/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.16	JB	0.0237	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.806	JB	0.00635	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.134	JB	0.0210	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0462	JB	0.0157	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.153	JB	0.0126	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.220	JB	0.0166	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0868	JB	0.00947	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.127	JB	0.0165	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0417	JBQ	0.0180	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0374	JB	0.0117	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.136	JBQ	0.00970	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.104	JB	0.0115	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.195	JB	0.0109	MDL	5.57	PQL	ng/Kg	U	B
OCDF	2.12	JB	0.0358	MDL	11.1	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX124 **Laboratory:** LL

EDD Filename: DX124_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-204-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 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
1,2,3,4,6,7,8-HPCDD	3.02	JB	0.0234	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.600	JB	0.00665	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.129	JB	0.0200	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.115	JB	0.0150	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.453	JB	0.0173	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.291	JB	0.0160	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.165	JB	0.0129	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.437	JB	0.0156	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.404	JB	0.0220	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.173	JB	0.0159	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.516	JB	0.0135	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.168	JB	0.0161	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.394	JB	0.0154	MDL	5.51	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0495	J	0.0105	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.171	JB	0.0345	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	1.52	JB	0.0315	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-204-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 9:00:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.688	JB	0.0127	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.134	JB	0.00456	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0672	JB	0.0137	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0929	JB	0.0116	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.150	JB	0.0106	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.146	JB	0.0122	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.104	JB	0.00760	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.233	JB	0.0118	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.311	JB	0.0143	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.154	JB	0.0130	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.248	JBQ	0.00655	MDL	5.85	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0769	JB	0.00877	MDL	5.85	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.195	JB	0.00737	MDL	5.85	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0436	J	0.00994	MDL	1.17	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-204-SA5DN-SB-9.0-10.0** ***Collected:*** **8/4/2011 9:00:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
2,3,7,8-TCDF	0.0890	JBQ	0.0119	MDL	1.17	PQL	ng/Kg	U	B
OCDD	4.26	JB	0.0119	MDL	11.7	PQL	ng/Kg	J	Z
OCDF	0.274	JB	0.0283	MDL	11.7	PQL	ng/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: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_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

Data Qualifier Summary

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DX124

Method Blank Outlier Report

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2200B371122	8/10/2011 11:22:00 AM	1,2,3,4,6,7,8-HPCDD	3.70 pg/L	EB23-SA5DN-SB-080311
		1,2,3,4,6,7,8-HPCDF	0.669 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.287 pg/L	
		1,2,3,4,7,8-HXCDF	0.230 pg/L	
		1,2,3,6,7,8-HXCDD	0.448 pg/L	
		1,2,3,7,8,9-HXCDD	0.265 pg/L	
		1,2,3,7,8,9-HXCDF	0.242 pg/L	
		1,2,3,7,8-PECDD	0.290 pg/L	
		1,2,3,7,8-PECDF	0.198 pg/L	
		2,3,4,6,7,8-HXCDF	0.227 pg/L	
		2,3,4,7,8-PECDF	0.517 pg/L	
		OCDD	9.52 pg/L	
		OCDF	1.03 pg/L	

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
EB23-SA5DN-SB-080311(RES)	1,2,3,4,6,7,8-HPCDD	3.78 pg/L	3.78U pg/L
EB23-SA5DN-SB-080311(RES)	1,2,3,4,6,7,8-HPCDF	0.491 pg/L	0.491U pg/L
EB23-SA5DN-SB-080311(RES)	1,2,3,4,7,8,9-HPCDF	0.350 pg/L	0.350U pg/L
EB23-SA5DN-SB-080311(RES)	1,2,3,4,7,8-HXCDF	0.211 pg/L	0.211U pg/L
EB23-SA5DN-SB-080311(RES)	1,2,3,6,7,8-HXCDD	0.339 pg/L	0.339U pg/L
EB23-SA5DN-SB-080311(RES)	1,2,3,7,8-PECDD	0.493 pg/L	0.493U pg/L
EB23-SA5DN-SB-080311(RES)	1,2,3,7,8-PECDF	0.557 pg/L	0.557U pg/L
EB23-SA5DN-SB-080311(RES)	2,3,4,6,7,8-HXCDF	0.256 pg/L	0.256U pg/L
EB23-SA5DN-SB-080311(RES)	2,3,4,7,8-PECDF	0.634 pg/L	0.634U pg/L
EB23-SA5DN-SB-080311(RES)	OCDD	8.38 pg/L	8.38U pg/L
EB23-SA5DN-SB-080311(RES)	OCDF	0.812 pg/L	0.812U pg/L

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2290B371948	8/18/2011 7:48:00 PM	1,2,3,4,6,7,8-HPCDD	0.267 ng/Kg	DUP23-SA5DN-QC-080411
		1,2,3,4,6,7,8-HPCDF	0.0532 ng/Kg	SL-002-SA6-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0269 ng/Kg	SL-002-SA6-SB-9.0-10.0
		1,2,3,4,7,8-HxCDD	0.0255 ng/Kg	SL-003-SA6-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0250 ng/Kg	SL-003-SA6-SB-8.5-9.5
		1,2,3,6,7,8-HXCDD	0.0273 ng/Kg	SL-004-SA6-SB-1.5-2.5
		1,2,3,6,7,8-HXCDF	0.0177 ng/Kg	SL-011-SA6-SB-0.5-1.5
		1,2,3,7,8,9-HXCDD	0.0242 ng/Kg	SL-185-SA5DN-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0309 ng/Kg	SL-185-SA5DN-SB-9.0-10.0
		1,2,3,7,8-PECDD	0.0222 ng/Kg	SL-188-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0101 ng/Kg	SL-188-SA5DN-SB-9.0-10.0
		2,3,4,6,7,8-HXCDF	0.0227 ng/Kg	SL-189-SA5DN-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0441 ng/Kg	SL-189-SA5DN-SB-9.0-10.0
		2,3,7,8-TCDF	0.0189 ng/Kg	SL-193-SA5DN-SB-4.0-5.0
		OCDD	0.507 ng/Kg	SL-193-SA5DN-SB-9.0-10.0
		OCDF	0.138 ng/Kg	SL-204-SA5DN-SB-4.0-5.0
				SL-204-SA5DN-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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
DUP23-SA5DN-QC-080411(RES)	1,2,3,4,6,7,8-HPCDD	0.553 ng/Kg	0.553U ng/Kg
DUP23-SA5DN-QC-080411(RES)	1,2,3,4,6,7,8-HPCDF	0.0922 ng/Kg	0.0922U ng/Kg
DUP23-SA5DN-QC-080411(RES)	1,2,3,4,7,8,9-HPCDF	0.0292 ng/Kg	0.0292U ng/Kg
DUP23-SA5DN-QC-080411(RES)	1,2,3,4,7,8-HxCDD	0.0395 ng/Kg	0.0395U ng/Kg
DUP23-SA5DN-QC-080411(RES)	1,2,3,4,7,8-HXCDF	0.0860 ng/Kg	0.0860U ng/Kg
DUP23-SA5DN-QC-080411(RES)	1,2,3,6,7,8-HXCDD	0.0993 ng/Kg	0.0993U ng/Kg
DUP23-SA5DN-QC-080411(RES)	1,2,3,6,7,8-HXCDF	0.0697 ng/Kg	0.0697U ng/Kg
DUP23-SA5DN-QC-080411(RES)	1,2,3,7,8-PECDD	0.0762 ng/Kg	0.0762U ng/Kg
DUP23-SA5DN-QC-080411(RES)	2,3,4,6,7,8-HXCDF	0.0467 ng/Kg	0.0467U ng/Kg
DUP23-SA5DN-QC-080411(RES)	2,3,4,7,8-PECDF	0.125 ng/Kg	0.125U ng/Kg
DUP23-SA5DN-QC-080411(RES)	2,3,7,8-TCDF	0.0436 ng/Kg	0.0436U ng/Kg
DUP23-SA5DN-QC-080411(RES)	OCDF	0.251 ng/Kg	0.251U ng/Kg
SL-002-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.126 ng/Kg	0.126U ng/Kg
SL-002-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0984 ng/Kg	0.0984U ng/Kg
SL-002-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0749 ng/Kg	0.0749U ng/Kg
SL-003-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0728 ng/Kg	0.0728U ng/Kg
SL-003-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0997 ng/Kg	0.0997U ng/Kg
SL-003-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0835 ng/Kg	0.0835U ng/Kg
SL-003-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0893 ng/Kg	0.0893U ng/Kg
SL-003-SA6-SB-8.5-9.5(RES)	1,2,3,4,7,8-HxCDD	0.0873 ng/Kg	0.0873U ng/Kg
SL-003-SA6-SB-8.5-9.5(RES)	1,2,3,7,8,9-HXCDF	0.106 ng/Kg	0.106U ng/Kg
SL-003-SA6-SB-8.5-9.5(RES)	1,2,3,7,8-PECDD	0.0489 ng/Kg	0.0489U ng/Kg
SL-004-SA6-SB-1.5-2.5(RES)	1,2,3,4,7,8-HxCDD	0.0871 ng/Kg	0.0871U ng/Kg
SL-004-SA6-SB-1.5-2.5(RES)	1,2,3,7,8,9-HXCDF	0.0347 ng/Kg	0.0347U ng/Kg
SL-004-SA6-SB-1.5-2.5(RES)	1,2,3,7,8-PECDD	0.0272 ng/Kg	0.0272U ng/Kg
SL-004-SA6-SB-1.5-2.5(RES)	2,3,4,7,8-PECDF	0.120 ng/Kg	0.120U ng/Kg
SL-004-SA6-SB-1.5-2.5(RES)	2,3,7,8-TCDF	0.0152 ng/Kg	0.0152U ng/Kg
SL-011-SA6-SB-0.5-1.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0846 ng/Kg	0.0846U ng/Kg
SL-011-SA6-SB-0.5-1.5(RES)	1,2,3,4,7,8-HxCDD	0.0570 ng/Kg	0.0570U ng/Kg
SL-011-SA6-SB-0.5-1.5(RES)	1,2,3,7,8,9-HXCDF	0.0612 ng/Kg	0.0612U ng/Kg
SL-011-SA6-SB-0.5-1.5(RES)	2,3,4,6,7,8-HXCDF	0.0810 ng/Kg	0.0810U ng/Kg
SL-011-SA6-SB-0.5-1.5(RES)	OCDF	0.657 ng/Kg	0.657U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.411 ng/Kg	0.411U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0610 ng/Kg	0.0610U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0534 ng/Kg	0.0534U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0172 ng/Kg	0.0172U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0240 ng/Kg	0.0240U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0521 ng/Kg	0.0521U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0204 ng/Kg	0.0204U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0612 ng/Kg	0.0612U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0932 ng/Kg	0.0932U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0146 ng/Kg	0.0146U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0223 ng/Kg	0.0223U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0216 ng/Kg	0.0216U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0530 ng/Kg	0.0530U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	OCDD	1.18 ng/Kg	1.18U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	OCDF	0.194 ng/Kg	0.194U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.436 ng/Kg	0.436U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0605 ng/Kg	0.0605U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0455 ng/Kg	0.0455U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0288 ng/Kg	0.0288U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0143 ng/Kg	0.0143U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0141 ng/Kg	0.0141U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0348 ng/Kg	0.0348U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0383 ng/Kg	0.0383U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0205 ng/Kg	0.0205U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0136 ng/Kg	0.0136U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0127 ng/Kg	0.0127U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0385 ng/Kg	0.0385U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0114 ng/Kg	0.0114U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	OCDF	0.303 ng/Kg	0.303U ng/Kg
SL-188-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.516 ng/Kg	0.516U ng/Kg
SL-188-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.147 ng/Kg	0.147U ng/Kg
SL-188-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0849 ng/Kg	0.0849U ng/Kg
SL-188-SA5DN-SB-4.0-5.0(RES)	OCDD	1.93 ng/Kg	1.93U ng/Kg
SL-188-SA5DN-SB-4.0-5.0(RES)	OCDF	0.295 ng/Kg	0.295U ng/Kg
SL-188-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.904 ng/Kg	0.904U ng/Kg
SL-188-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.203 ng/Kg	0.203U ng/Kg
SL-188-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0855 ng/Kg	0.0855U ng/Kg
SL-188-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.106 ng/Kg	0.106U ng/Kg
SL-188-SA5DN-SB-9.0-10.0(RES)	OCDF	0.445 ng/Kg	0.445U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.535 ng/Kg	0.535U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0913 ng/Kg	0.0913U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0461 ng/Kg	0.0461U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0112 ng/Kg	0.0112U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0910 ng/Kg	0.0910U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0686 ng/Kg	0.0686U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0249 ng/Kg	0.0249U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0182 ng/Kg	0.0182U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0404 ng/Kg	0.0404U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX124 | Laboratory: LL

EDD Filename: DX124_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-189-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.115 ng/Kg	0.115U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0754 ng/Kg	0.0754U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	OCDF	0.221 ng/Kg	0.221U ng/Kg
SL-189-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.261 ng/Kg	0.261U ng/Kg
SL-189-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.133 ng/Kg	0.133U ng/Kg
SL-189-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0690 ng/Kg	0.0890U ng/Kg
SL-189-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.120 ng/Kg	0.120U ng/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.134 ng/Kg	0.134U ng/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0462 ng/Kg	0.0462U ng/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0868 ng/Kg	0.0868U ng/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0417 ng/Kg	0.0417U ng/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0374 ng/Kg	0.0374U ng/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.104 ng/Kg	0.104U ng/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.195 ng/Kg	0.195U ng/Kg
SL-204-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.129 ng/Kg	0.129U ng/Kg
SL-204-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.115 ng/Kg	0.115U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.688 ng/Kg	0.688U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.134 ng/Kg	0.134U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0672 ng/Kg	0.0672U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0929 ng/Kg	0.0929U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0769 ng/Kg	0.0769U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.195 ng/Kg	0.195U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0890 ng/Kg	0.0890U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	OCDF	0.274 ng/Kg	0.274U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-189-SA5DN-SB-4.0-5.0	DUP23-SA5DN-QC-080411			
MOISTURE	9.0	9.8	9		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-189-SA5DN-SB-4.0-5.0	DUP23-SA5DN-QC-080411			
1,2,3,4,6,7,8-HPCDD	0.535	0.553	3	50.00	
1,2,3,4,6,7,8-HPCDF	0.0913	0.0922	1	50.00	
1,2,3,4,7,8,9-HPCDF	0.0461	0.0292	45	50.00	
1,2,3,4,7,8-HXCDF	0.0910	0.0860	6	50.00	
1,2,3,6,7,8-HXCDD	0.0686	0.0993	37	50.00	
1,2,3,7,8,9-HXCDD	0.176	0.163	8	50.00	No Qualifiers Applied
1,2,3,7,8,9-HXCDF	0.227	0.193	16	50.00	
1,2,3,7,8-PECDF	0.231	0.178	26	50.00	
2,3,4,6,7,8-HXCDF	0.0404	0.0467	14	50.00	
2,3,4,7,8-PECDF	0.115	0.125	8	50.00	
OCDF	0.221	0.251	13	50.00	
1,2,3,4,7,8-HxCDD	0.0112	0.0395	112	50.00	
1,2,3,6,7,8-HXCDF	0.0249	0.0697	95	50.00	
1,2,3,7,8-PECDD	0.0182	0.0762	123	50.00	J(all detects)
2,3,7,8-TCDD	1.05 U	0.0290	200	50.00	UJ(all non-detects)
2,3,7,8-TCDF	0.0754	0.0436	53	50.00	
OCDD	2.91	5.41	60	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB23-SA5DN-SB-080311	1,2,3,4,6,7,8-HPCDD	JBQ	3.78	11.2	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.491	11.2	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.350	11.2	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JQ	0.216	11.2	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.211	11.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.339	11.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JQ	0.263	11.2	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.493	11.2	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.557	11.2	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.256	11.2	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.634	11.2	PQL	pg/L	
	OCDD	JB	8.38	22.4	PQL	pg/L	
	OCDF	JBQ	0.812	22.4	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP23-SA5DN-QC-080411	1,2,3,4,6,7,8-HPCDD	JB	0.553	5.31	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0922	5.31	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0292	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0395	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0860	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0993	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0697	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.163	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.193	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0762	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.178	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0467	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.125	5.31	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0290	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0436	1.06	PQL	ng/Kg	
	OCDD	JB	5.41	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.251	10.6	PQL	ng/Kg	
SL-002-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	4.99	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.983	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.126	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.521	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.31	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.305	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.496	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.174	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.209	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.13	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.358	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.812	5.53	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0335	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.256	1.11	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	3.89	5.49	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.773	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0984	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.681	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.826	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.423	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.295	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.167	5.49	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0749	5.49	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.82	5.49	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.345	5.49	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.67	5.49	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0170	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.323	1.10	PQL	ng/Kg	
	OCDF	JB	10.8	11.0	PQL	ng/Kg	
SL-003-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	2.73	5.85	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.560	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0728	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.319	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.650	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.212	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.268	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0997	5.85	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0835	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.409	5.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.229	5.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.505	5.85	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0327	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0893	1.17	PQL	ng/Kg	
	OCDF	JB	7.17	11.7	PQL	ng/Kg	
SL-003-SA6-SB-8.5-9.5	1,2,3,4,6,7,8-HPCDF	JB	2.67	5.47	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.521	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0873	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.412	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.690	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.214	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.263	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.106	5.47	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0489	5.47	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.354	5.47	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.251	5.47	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.715	5.47	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0352	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.264	1.09	PQL	ng/Kg	
	OCDF	JB	7.76	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-004-SA6-SB-1.5-2.5	1,2,3,4,6,7,8-HPCDF	JB	2.86	5.15	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.490	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0871	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.199	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.722	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.143	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.249	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0347	5.15	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0272	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0840	5.15	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.181	5.15	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.120	5.15	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0138	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0152	1.03	PQL	ng/Kg	
	OCDF	JB	8.66	10.3	PQL	ng/Kg	
SL-011-SA6-SB-0.5-1.5	1,2,3,4,6,7,8-HPCDD	JB	1.77	5.27	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.324	5.27	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0846	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0570	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.165	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.197	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0916	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.157	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0612	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.118	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0907	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0810	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.371	5.27	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0383	1.05	PQL	ng/Kg	
	OCDF	JB	0.657	10.5	PQL	ng/Kg	
SL-185-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.411	5.72	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0610	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0534	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0172	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0240	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0521	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0204	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0612	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0932	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0146	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0223	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0216	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0530	5.72	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0159	1.14	PQL	ng/Kg	
	OCDD	JB	1.18	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.194	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-185-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.436	5.71	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0605	5.71	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0455	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0288	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0143	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0141	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0348	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0383	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0205	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0136	5.71	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0127	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0385	5.71	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0114	1.14	PQL	ng/Kg	
	OCDD	JB	2.94	11.4	PQL	ng/Kg	
	OCDF	JB	0.303	11.4	PQL	ng/Kg	
SL-188-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.516	5.73	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.147	5.73	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0849	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.154	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.263	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.170	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.214	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.152	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.200	5.73	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.298	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.352	5.73	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.147	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.339	5.73	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0952	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.105	1.15	PQL	ng/Kg	
	OCDD	JB	1.93	11.5	PQL	ng/Kg	
	OCDF	JB	0.295	11.5	PQL	ng/Kg	
SL-188-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.904	5.57	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.203	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0855	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.106	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.239	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.153	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.183	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.182	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.218	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.192	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.431	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.121	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.304	5.57	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0764	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.137	1.11	PQL	ng/Kg	
	OCDD	JB	6.68	11.1	PQL	ng/Kg	
	OCDF	JB	0.445	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-189-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.535	5.24	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0913	5.24	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0461	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0112	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0910	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0686	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0249	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.176	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.227	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0182	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.231	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0404	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.115	5.24	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0754	1.05	PQL	ng/Kg	
	OCDD	JB	2.91	10.5	PQL	ng/Kg	
	OCDF	JB	0.221	10.5	PQL	ng/Kg	
SL-189-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.36	5.67	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.261	5.67	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.133	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0690	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.295	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.120	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.129	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.146	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.177	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.120	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.643	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.138	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.237	5.67	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0229	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.188	1.13	PQL	ng/Kg	
	OCDD	JB	8.78	11.3	PQL	ng/Kg	
	OCDF	JB	0.717	11.3	PQL	ng/Kg	
SL-193-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	2.81	5.56	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.357	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.141	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.313	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.542	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.208	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.307	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.161	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.150	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.588	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.268	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.403	5.56	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0357	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.167	1.11	PQL	ng/Kg	
	OCDF	JB	8.65	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-193-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	5.16	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.806	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.134	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0462	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.153	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.220	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0868	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.127	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0417	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0374	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.136	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.104	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.195	5.57	PQL	ng/Kg	
	OCDF	JB	2.12	11.1	PQL	ng/Kg	
SL-204-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	3.02	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.600	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.129	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.115	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.453	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.291	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.165	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.437	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.404	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.173	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.516	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.168	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.394	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0495	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.171	1.10	PQL	ng/Kg	
	OCDF	JB	1.52	11.0	PQL	ng/Kg	
SL-204-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.688	5.85	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.134	5.85	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0672	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0929	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.150	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.146	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.104	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.233	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.311	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.154	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.248	5.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0769	5.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.195	5.85	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0436	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0890	1.17	PQL	ng/Kg	
	OCDD	JB	4.26	11.7	PQL	ng/Kg	
	OCDF	JB	0.274	11.7	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX125

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
04-Aug-2011	SL-014-SA6-SB-4.0-5.0	6366548	N	METHOD	1613B	III
04-Aug-2011	SL-014-SA6-SB-9.0-10.0	6366549	N	METHOD	1613B	III
04-Aug-2011	SL-025-SA6-SB-4.0-5.0	6366556	N	METHOD	1613B	III
04-Aug-2011	SL-025-SA6-SB-9.0-10.0	6366557	N	METHOD	1613B	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0	6366550	N	METHOD	1613B	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MS	6366551	MS	METHOD	1613B	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MSD	6366552	MSD	METHOD	1613B	III
04-Aug-2011	DUP11-SA6-QC-080411	6366558	FD	METHOD	1613B	III
04-Aug-2011	SL-019-SA6-SB-9.0-10.0	6366553	N	METHOD	1613B	III
04-Aug-2011	SL-006-SA6-SB-4.0-5.0	6366546	N	METHOD	1613B	III
04-Aug-2011	SL-006-SA6-SB-9.0-10.0	6366547	N	METHOD	1613B	III
04-Aug-2011	SL-024-SA6-SB-4.0-5.0	6366554	N	METHOD	1613B	III
04-Aug-2011	SL-024-SA6-SB-9.0-10.0	6366555	N	METHOD	1613B	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367765	N	METHOD	1613B	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367772	N	METHOD	1613B	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367773	N	METHOD	1613B	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367767	N	METHOD	1613B	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367766	N	METHOD	1613B	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367770	N	METHOD	1613B	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367771	N	METHOD	1613B	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367768	N	METHOD	1613B	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367769	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX125 Laboratory: LL

EDD Filename: DX125_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP11-SA6-QC-080411 *Collected:* 8/4/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.05	JB	0.113	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.270	JB	0.0981	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.928	J	0.0921	MDL	5.41	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	2.23	J	0.101	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.798	J	0.0828	MDL	5.41	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDD	0.602	JQ	0.0959	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.189	JBQ	0.0928	MDL	5.41	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.148	JQ	0.0803	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.755	JQ	0.0574	MDL	5.41	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.967	JQ	0.0854	MDL	5.41	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.603	JBQ	0.0566	MDL	5.41	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.274	JQ	0.0996	MDL	1.08	PQL	ng/Kg	J	Z, FD
OCDD	1990	B	0.214	MDL	10.8	PQL	ng/Kg	J	FD
OCDF	25.2	B	0.0788	MDL	10.8	PQL	ng/Kg	J	FD

Sample ID: SL-006-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 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
1,2,3,4,6,7,8-HPCDD	0.363	JB	0.0966	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0438	JBQ	0.0420	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0814	JQ	0.0432	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0770	JQ	0.0570	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0503	JBQ	0.0465	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0454	JBQ	0.0430	MDL	5.44	PQL	ng/Kg	U	B
OCDD	0.691	JB	0.0473	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.119	JBQ	0.0917	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-006-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 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
1,2,3,4,6,7,8-HPCDD	0.488	JBQ	0.0768	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0850	JBQ	0.0277	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0465	JBQ	0.0457	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.253	JQ	0.0602	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0651	JQ	0.0408	MDL	5.63	PQL	ng/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: DX125 Laboratory: LL

EDD Filename: DX125_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-006-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 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
1,2,3,7,8,9-HXCDD	0.437	JQ	0.0584	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.588	JBQ	0.0484	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0975	JQ	0.0437	MDL	5.63	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0721	JBQ	0.0448	MDL	5.63	PQL	ng/Kg	U	B
OCDD	1.11	JB	0.0483	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.205	JBQ	0.0782	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-010-SA6-SB-4.0-5.0 *Collected:* 8/5/2011 8:05:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.330	JB	0.0856	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0907	JBQ	0.0329	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0765	JQ	0.0611	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0506	JQ	0.0308	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0469	JBQ	0.0290	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0612	JQ	0.0441	MDL	5.58	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0482	JBQ	0.0419	MDL	5.58	PQL	ng/Kg	U	B
OCDD	1.09	JBQ	0.0707	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.106	JBQ	0.0906	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-014-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 7:55:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.09	JB	0.0578	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.920	JB	0.0909	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.452	JQ	0.0821	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.933	J	0.0997	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.311	JQ	0.0674	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.302	J	0.0960	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.101	JBQ	0.0559	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.67	JQ	0.0677	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.293	J	0.0716	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.268	JBQ	0.0652	MDL	5.51	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.185	JQ	0.150	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	9.75	JB	0.0863	MDL	11.0	PQL	ng/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: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-014-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 8:00:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.22	JBQ	0.132	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.188	JBQ	0.119	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.684	JQ	0.0989	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.00	J	0.126	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.354	J	0.0828	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.721	J	0.119	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.213	JBQ	0.0642	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.150	JQ	0.0930	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.843	JQ	0.0912	MDL	5.50	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.553	JQ	0.0849	MDL	5.50	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.383	JB	0.0855	MDL	5.50	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.356	JQ	0.183	MDL	1.10	PQL	ng/Kg	J	Z

Sample ID: SL-019-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 11:05:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	1.79	C	0.0502	MDL	1.08	PQL	ng/Kg	J	FD

Sample ID: SL-019-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 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
1,2,3,4,7,8,9-HPCDF	1.54	JB	0.0802	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.230	JBQ	0.0941	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	8.24		0.0919	MDL	5.41	PQL	ng/Kg	J	FD
1,2,3,6,7,8-HXCDD	1.79	J	0.0913	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.63	J	0.0838	MDL	5.41	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDD	0.553	J	0.0898	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.717	JB	0.0709	MDL	5.41	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	0.170	JQ	0.0993	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.69	J	0.0839	MDL	5.41	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	1.52	J	0.0780	MDL	5.41	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.13	JB	0.0761	MDL	5.41	PQL	ng/Kg	J	Z, FD
OCDD	1060	B	0.142	MDL	10.8	PQL	ng/Kg	J	FD
OCDF	14.7	B	0.0664	MDL	10.8	PQL	ng/Kg	J	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-019-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.18	JB	0.0576	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.480	JBQ	0.0858	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.153	JBQ	0.0808	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.346	J	0.0765	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.650	J	0.0814	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.328	JQ	0.0675	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.300	JQ	0.0807	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.120	JB	0.0591	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.338	JQ	0.0833	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.613	JQ	0.0602	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.370	J	0.0699	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.430	JBQ	0.0577	MDL	5.48	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.157	JQ	0.122	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.138	JQ	0.130	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	5.23	JB	0.0819	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-022-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 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
1,2,3,4,6,7,8-HPCDD	3.48	JBQ	0.102	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.353	JQ	0.0763	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.322	JQ	0.0754	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0960	JQ	0.0878	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	4.68	J	0.138	MDL	5.23	PQL	ng/Kg	J	Z

Sample ID: SL-023-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.71	JB	0.0423	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.161	JBQ	0.0630	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0862	JBQ	0.0771	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.183	JQ	0.0568	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.282	JQ	0.0752	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.152	JQ	0.0459	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.252	JQ	0.0716	MDL	5.17	PQL	ng/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: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-023-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.114	JQ	0.0669	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.522	J	0.0488	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.196	JQ	0.0567	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.198	JBQ	0.0465	MDL	5.17	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.106	JQ	0.100	MDL	1.03	PQL	ng/Kg	J	Z

Sample ID: SL-024-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 2:50:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.355	JBQ	0.0619	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.108	JB	0.0250	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0710	JB	0.0326	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.169	JBQ	0.0502	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.158	JQ	0.0342	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.170	JQ	0.0517	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.209	J	0.0318	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.221	JQ	0.0501	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.184	JB	0.0303	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.317	JQ	0.0622	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.312	JQ	0.0386	MDL	5.39	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0956	JQ	0.0317	MDL	5.39	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.409	JB	0.0356	MDL	5.39	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.149	J	0.104	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.120	JQ	0.0810	MDL	1.08	PQL	ng/Kg	J	Z
OCDD	1.21	JB	0.0457	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.228	JBQ	0.0652	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-024-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 2:55:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.83	JB	0.0794	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.412	JB	0.0300	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0783	JBQ	0.0484	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.103	JBQ	0.0581	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.129	JQ	0.0594	MDL	5.52	PQL	ng/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: DX125 **Laboratory:** LL

EDD Filename: DX125_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-024-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 2:55:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.0548	JQ	0.0368	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.110	JQ	0.0568	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0652	JBQ	0.0364	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0409	JQ	0.0364	MDL	5.52	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0827	JQ	0.0392	MDL	5.52	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.118	JBQ	0.0392	MDL	5.52	PQL	ng/Kg	U	B
OCDF	1.08	JB	0.0666	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-025-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 9:00:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.349	JB	0.0672	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0725	JBQ	0.0238	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0477	JQ	0.0321	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0550	JBQ	0.0316	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0485	JQ	0.0413	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0753	JBQ	0.0373	MDL	5.32	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0981	JQ	0.0910	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	3.03	JB	0.0383	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.123	JBQ	0.0675	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-025-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 9:05:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.348	JBQ	0.0683	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0625	JBQ	0.0305	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0394	JQ	0.0311	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0782	JQ	0.0489	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0667	JB	0.0357	MDL	5.45	PQL	ng/Kg	U	B
OCDD	0.822	JBQ	0.0476	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.158	JBQ	0.0661	MDL	10.9	PQL	ng/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: DX125 **Laboratory:** LL

EDD Filename: DX125_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-060-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 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
1,2,3,4,6,7,8-HPCDD	0.882	JBQ	0.0669	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.166	JBQ	0.0191	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.111	JBQ	0.0357	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0699	JBQ	0.0505	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0990	J	0.0677	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.131	JQ	0.0477	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.108	JQ	0.0572	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.112	JQ	0.0457	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.155	JBQ	0.0583	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0977	JQ	0.0428	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.103	J	0.0618	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0635	JB	0.0440	MDL	5.03	PQL	ng/Kg	U	B
OCDD	9.27	JB	0.0567	MDL	10.1	PQL	ng/Kg	J	Z
OCDF	0.388	JBQ	0.0676	MDL	10.1	PQL	ng/Kg	U	B

Sample ID: SL-060-SA5DN-SB-7.0-8.0 *Collected:* 8/5/2011 1:05:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.529	JB	0.0693	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0815	JBQ	0.0237	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0646	JBQ	0.0410	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0519	JQ	0.0461	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0781	JQ	0.0535	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0929	JBQ	0.0405	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0891	JBQ	0.0427	MDL	5.72	PQL	ng/Kg	U	B
OCDD	4.62	JB	0.0424	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.350	JBQ	0.0838	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-114-SA6-SB-4.0-5.0 *Collected:* 8/5/2011 3:05:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.443	JB	0.0714	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0830	JB	0.0256	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0852	JQ	0.0377	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0925	J	0.0515	MDL	5.27	PQL	ng/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: DX125 Laboratory: LL

EDD Filename: DX125_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-114-SA6-SB-4.0-5.0 *Collected:* 8/5/2011 3:05:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.0316	JQ	0.0305	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.187	J	0.0496	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0780	JBQ	0.0376	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.184	J	0.0731	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.167	JQ	0.0384	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0513	J	0.0352	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.160	JBQ	0.0377	MDL	5.27	PQL	ng/Kg	U	B
OCDD	0.935	JBQ	0.0571	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.156	JBQ	0.0858	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-114-SA6-SB-9.0-10.0 *Collected:* 8/5/2011 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
1,2,3,4,6,7,8-HPCDD	0.222	JB	0.0670	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0777	JBQ	0.0246	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0485	JBQ	0.0399	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0397	JQ	0.0310	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0860	J	0.0496	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0716	J	0.0268	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0595	JQ	0.0465	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0420	JBQ	0.0254	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0870	J	0.0647	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.199	JQ	0.0453	MDL	5.50	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0710	JQ	0.0264	MDL	5.50	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.101	JBQ	0.0447	MDL	5.50	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.110	JQ	0.0773	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	0.733	JBQ	0.0437	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.127	JBQ	0.0770	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-198-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 8:49:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.13	JB	0.0392	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.111	JB	0.0760	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.222	JBQ	0.0738	MDL	5.80	PQL	ng/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: DX125 **Laboratory:** LL

EDD Filename: DX125_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-198-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 8:49:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.211	JQ	0.0769	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.636	J	0.0755	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.147	JQ	0.0620	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.882	JQ	0.0738	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.982	JB	0.0757	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.130	J	0.0686	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.752	J	0.0430	MDL	5.80	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.140	J	0.0699	MDL	5.80	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.161	JBQ	0.0440	MDL	5.80	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.143	JQ	0.0879	MDL	1.16	PQL	ng/Kg	J	Z
OCDF	5.79	JB	0.0773	MDL	11.6	PQL	ng/Kg	J	Z

Sample ID: SL-198-SA5DN-SB-9.0-10.0 *Collected:* 8/5/2011 9:13:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.34	JB	0.0378	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.189	JBQ	0.0808	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0875	JQ	0.0564	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.200	JQ	0.0683	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0874	JQ	0.0438	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.194	JQ	0.0648	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.145	JQ	0.0502	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0592	JB	0.0357	MDL	5.33	PQL	ng/Kg	U	B
OCDF	4.33	JBQ	0.0921	MDL	10.7	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_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

Data Qualifier Summary

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX125

Method Blank Outlier Report

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2300B371838	8/19/2011 6:38:00 PM	1,2,3,4,6,7,8-HPCDD	0.238 ng/Kg	DUP11-SA6-QC-080411
		1,2,3,4,6,7,8-HPCDF	0.0694 ng/Kg	SL-006-SA6-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0615 ng/Kg	SL-006-SA6-SB-9.0-10.0
		1,2,3,4,7,8-HxCDD	0.103 ng/Kg	SL-010-SA6-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0418 ng/Kg	SL-014-SA6-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0660 ng/Kg	SL-014-SA6-SB-9.0-10.0
		OCDD	0.596 ng/Kg	SL-019-SA6-SB-4.0-5.0
		OCDF	0.136 ng/Kg	SL-019-SA6-SB-9.0-10.0
				SL-022-SA6-SB-0.0-1.0
				SL-023-SA6-SB-0.0-1.0
				SL-024-SA6-SB-4.0-5.0
				SL-024-SA6-SB-9.0-10.0
				SL-025-SA6-SB-4.0-5.0
				SL-025-SA6-SB-9.0-10.0
				SL-060-SA5DN-SB-4.0-5.0
				SL-060-SA5DN-SB-7.0-8.0
				SL-114-SA6-SB-4.0-5.0
				SL-114-SA6-SB-9.0-10.0
				SL-198-SA5DN-SB-4.0-5.0
				SL-198-SA5DN-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
DUP11-SA6-QC-080411(RES)	1,2,3,4,7,8-HxCDD	0.270 ng/Kg	0.270U ng/Kg
DUP11-SA6-QC-080411(RES)	1,2,3,7,8,9-HXCDF	0.189 ng/Kg	0.189U ng/Kg
SL-006-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.363 ng/Kg	0.363U ng/Kg
SL-006-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0438 ng/Kg	0.0438U ng/Kg
SL-006-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0503 ng/Kg	0.0503U ng/Kg
SL-006-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0454 ng/Kg	0.0454U ng/Kg
SL-006-SA6-SB-4.0-5.0(RES)	OCDD	0.691 ng/Kg	0.691U ng/Kg
SL-006-SA6-SB-4.0-5.0(RES)	OCDF	0.119 ng/Kg	0.119U ng/Kg
SL-006-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.488 ng/Kg	0.488U ng/Kg
SL-006-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0850 ng/Kg	0.0850U ng/Kg
SL-006-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0465 ng/Kg	0.0465U ng/Kg
SL-006-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0721 ng/Kg	0.0721U ng/Kg
SL-006-SA6-SB-9.0-10.0(RES)	OCDD	1.11 ng/Kg	1.11U ng/Kg
SL-006-SA6-SB-9.0-10.0(RES)	OCDF	0.205 ng/Kg	0.205U ng/Kg
SL-010-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.330 ng/Kg	0.330U ng/Kg
SL-010-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0907 ng/Kg	0.0907U ng/Kg
SL-010-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0469 ng/Kg	0.0469U ng/Kg
SL-010-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0482 ng/Kg	0.0482U ng/Kg
SL-010-SA6-SB-4.0-5.0(RES)	OCDD	1.09 ng/Kg	1.09U ng/Kg
SL-010-SA6-SB-4.0-5.0(RES)	OCDF	0.106 ng/Kg	0.106U ng/Kg
SL-014-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.101 ng/Kg	0.101U ng/Kg
SL-014-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.268 ng/Kg	0.268U ng/Kg
SL-014-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.188 ng/Kg	0.188U ng/Kg
SL-019-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.230 ng/Kg	0.230U ng/Kg
SL-019-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.153 ng/Kg	0.153U ng/Kg
SL-019-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-023-SA6-SB-0.0-1.0(RES)	1,2,3,4,7,8,9-HPCDF	0.161 ng/Kg	0.161U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-023-SA6-SB-0.0-1.0(RES)	1,2,3,4,7,8-HxCDD	0.0862 ng/Kg	0.0862U ng/Kg
SL-023-SA6-SB-0.0-1.0(RES)	2,3,4,7,8-PECDF	0.198 ng/Kg	0.198U ng/Kg
SL-024-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.355 ng/Kg	0.355U ng/Kg
SL-024-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.108 ng/Kg	0.108U ng/Kg
SL-024-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0710 ng/Kg	0.0710U ng/Kg
SL-024-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.169 ng/Kg	0.169U ng/Kg
SL-024-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.184 ng/Kg	0.184U ng/Kg
SL-024-SA6-SB-4.0-5.0(RES)	OCDD	1.21 ng/Kg	1.21U ng/Kg
SL-024-SA6-SB-4.0-5.0(RES)	OCDF	0.228 ng/Kg	0.228U ng/Kg
SL-024-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0783 ng/Kg	0.0783U ng/Kg
SL-024-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.103 ng/Kg	0.103U ng/Kg
SL-024-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0652 ng/Kg	0.0652U ng/Kg
SL-024-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.118 ng/Kg	0.118U ng/Kg
SL-025-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.349 ng/Kg	0.349U ng/Kg
SL-025-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0725 ng/Kg	0.0725U ng/Kg
SL-025-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0550 ng/Kg	0.0550U ng/Kg
SL-025-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0753 ng/Kg	0.0753U ng/Kg
SL-025-SA6-SB-4.0-5.0(RES)	OCDF	0.123 ng/Kg	0.123U ng/Kg
SL-025-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.348 ng/Kg	0.348U ng/Kg
SL-025-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0625 ng/Kg	0.0625U ng/Kg
SL-025-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0667 ng/Kg	0.0667U ng/Kg
SL-025-SA6-SB-9.0-10.0(RES)	OCDD	0.822 ng/Kg	0.822U ng/Kg
SL-025-SA6-SB-9.0-10.0(RES)	OCDF	0.158 ng/Kg	0.158U ng/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.882 ng/Kg	0.882U ng/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.166 ng/Kg	0.166U ng/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.111 ng/Kg	0.111U ng/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0699 ng/Kg	0.0699U ng/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.155 ng/Kg	0.155U ng/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0635 ng/Kg	0.0635U ng/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	OCDF	0.388 ng/Kg	0.388U ng/Kg
SL-060-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	0.529 ng/Kg	0.529U ng/Kg
SL-060-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0815 ng/Kg	0.0815U ng/Kg
SL-060-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0646 ng/Kg	0.0646U ng/Kg
SL-060-SA5DN-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDF	0.0929 ng/Kg	0.0929U ng/Kg
SL-060-SA5DN-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.0891 ng/Kg	0.0891U ng/Kg
SL-060-SA5DN-SB-7.0-8.0(RES)	OCDF	0.350 ng/Kg	0.350U ng/Kg
SL-114-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.443 ng/Kg	0.443U ng/Kg
SL-114-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0830 ng/Kg	0.0830U ng/Kg
SL-114-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0780 ng/Kg	0.0780U ng/Kg
SL-114-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.160 ng/Kg	0.160U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-114-SA6-SB-4.0-5.0(RES)	OCDD	0.935 ng/Kg	0.935U ng/Kg
SL-114-SA6-SB-4.0-5.0(RES)	OCDF	0.156 ng/Kg	0.156U ng/Kg
SL-114-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.222 ng/Kg	0.222U ng/Kg
SL-114-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0777 ng/Kg	0.0777U ng/Kg
SL-114-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0485 ng/Kg	0.0485U ng/Kg
SL-114-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0420 ng/Kg	0.0420U ng/Kg
SL-114-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.101 ng/Kg	0.101U ng/Kg
SL-114-SA6-SB-9.0-10.0(RES)	OCDD	0.733 ng/Kg	0.733U ng/Kg
SL-114-SA6-SB-9.0-10.0(RES)	OCDF	0.127 ng/Kg	0.127U ng/Kg
SL-198-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.111 ng/Kg	0.111U ng/Kg
SL-198-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.222 ng/Kg	0.222U ng/Kg
SL-198-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.161 ng/Kg	0.161U ng/Kg
SL-198-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,6,9-HPCDF	0.189 ng/Kg	0.189U ng/Kg
SL-198-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0592 ng/Kg	0.0592U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-019-SA6-SB-4.0-5.0 MS SL-019-SA6-SB-4.0-5.0 MSD (SL-019-SA6-SB-4.0-5.0)	OCDD	185	301	40.00-135.00	-	OCDD	No Qual, >4x

Field Duplicate RPD Report

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA6-SB-4.0-5.0	DUP11-SA6-QC-080411			
MOISTURE	8.8	8.4	5		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA6-SB-4.0-5.0	DUP11-SA6-QC-080411			
1,2,3,4,6,7,8-HPCDD	59.5	84.1	34	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	10.1	11.2	10	50.00	
1,2,3,4,7,8,9-HPCDF	1.54	2.05	28	50.00	
1,2,3,4,7,8-HxCDD	0.230	0.270	16	50.00	
1,2,3,6,7,8-HXCDD	1.79	2.23	22	50.00	
1,2,3,7,8,9-HXCDD	0.553	0.602	8	50.00	
1,2,3,7,8-PECDD	0.170	0.148	14	50.00	
2,3,4,6,7,8-HXCDF	1.52	0.967	44	50.00	
1,2,3,4,7,8-HXCDF	8.24	0.928	160	50.00	J(all detects)
1,2,3,6,7,8-HXCDF	2.63	0.798	107	50.00	
1,2,3,7,8,9-HXCDF	0.717	0.189	117	50.00	
1,2,3,7,8-PECDF	1.69	0.755	76	50.00	
2,3,4,7,8-PECDF	3.13	0.603	135	50.00	
2,3,7,8-TCDF	1.79	0.274	147	50.00	
OCDD	1060	1990	61	50.00	
OCDF	14.7	25.2	53	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP11-SA6-QC-080411	1,2,3,4,7,8,9-HPCDF	JB	2.05	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.270	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.928	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	2.23	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.798	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.602	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.189	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.148	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.755	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.967	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.603	5.41	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.274	1.08	PQL	ng/Kg	
SL-006-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.363	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0438	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0814	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0770	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0503	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0454	5.44	PQL	ng/Kg	
	OCDD	JB	0.691	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.119	10.9	PQL	ng/Kg	
SL-006-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.488	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0850	5.63	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0465	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.253	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0651	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.437	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.588	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0975	5.63	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0721	5.63	PQL	ng/Kg	
	OCDD	JB	1.11	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.205	11.3	PQL	ng/Kg	
SL-010-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.330	5.58	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0907	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0765	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0506	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0469	5.58	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0612	5.58	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0482	5.58	PQL	ng/Kg	
	OCDD	JBQ	1.09	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.106	11.2	PQL	ng/Kg	
SL-014-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	4.09	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.920	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.452	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.933	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.311	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.302	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.101	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	1.67	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.293	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.268	5.51	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.185	1.10	PQL	ng/Kg	
	OCDF	JB	9.75	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-014-SA6-SB-9.0-10.0	1,2,3,4,7,8,9-HPCDF	JBQ	1.22	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JBQ	0.188	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.684	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	2.00	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.354	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.721	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.213	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.150	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.843	5.50	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.553	5.50	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.383	5.50	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.356	1.10	PQL	ng/Kg	
SL-019-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	1.54	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JBQ	0.230	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	1.79	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	2.63	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.553	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.717	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.170	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	1.69	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	1.52	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	3.13	5.41	PQL	ng/Kg	
SL-019-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	2.18	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.480	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.153	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.346	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.650	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.328	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.300	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.120	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.338	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.613	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.370	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.430	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.157	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.138	1.10	PQL	ng/Kg	
	OCDF	JB	5.23	11.0	PQL	ng/Kg	
SL-022-SA6-SB-0.0-1.0	1,2,3,4,6,7,8-HPCDD	JBQ	3.48	5.23	PQL	ng/Kg	J (all detects)
	1,2,3,6,7,8-HXCDD	JQ	0.353	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.322	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0960	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	4.68	5.23	PQL	ng/Kg	
SL-023-SA6-SB-0.0-1.0	1,2,3,4,6,7,8-HPCDF	JB	2.71	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.161	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0862	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.183	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.282	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.152	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.252	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.114	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.522	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.196	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.198	5.17	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.106	1.03	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-024-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.355	5.39	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.108	5.39	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0710	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.169	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.158	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.170	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.209	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.221	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.184	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.317	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.312	5.39	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0956	5.39	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.409	5.39	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.149	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.120	1.08	PQL	ng/Kg	
	OCDD	JB	1.21	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.228	10.8	PQL	ng/Kg	
SL-024-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	2.83	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.412	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0783	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.103	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.129	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0548	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.110	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0652	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0409	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0827	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.118	5.52	PQL	ng/Kg	
	OCDF	JB	1.08	11.0	PQL	ng/Kg	
SL-025-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.349	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0725	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0477	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0550	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0485	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0753	5.32	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0981	1.06	PQL	ng/Kg	
	OCDD	JB	3.03	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.123	10.6	PQL	ng/Kg	
SL-025-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.348	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0625	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0394	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0782	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0667	5.45	PQL	ng/Kg	
	OCDD	JBQ	0.822	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.158	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-060-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.882	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.166	5.03	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.111	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0699	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.0990	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.131	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.108	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.112	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.155	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0977	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.103	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0635	5.03	PQL	ng/Kg	
	OCDD	JB	9.27	10.1	PQL	ng/Kg	
	OCDF	JBQ	0.388	10.1	PQL	ng/Kg	
SL-060-SA5DN-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JB	0.529	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0815	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0646	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0519	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0781	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0929	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0891	5.72	PQL	ng/Kg	
	OCDD	JB	4.62	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.350	11.4	PQL	ng/Kg	
SL-114-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.443	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0830	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0852	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.0925	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0316	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.187	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0780	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.184	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.167	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.0513	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.160	5.27	PQL	ng/Kg	
	OCDD	JBQ	0.935	10.5	PQL	ng/Kg	
	OCDF	JBQ	0.156	10.5	PQL	ng/Kg	
SL-114-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.222	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0777	5.50	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0485	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0397	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.0860	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.0716	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0595	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0420	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0870	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.199	5.50	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0710	5.50	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.101	5.50	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.110	1.10	PQL	ng/Kg	
	OCDD	JBQ	0.733	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.127	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-198-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	2.13	5.80	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.111	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.222	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.211	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.636	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.147	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.882	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.982	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.130	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.752	5.80	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.140	5.80	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.161	5.80	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.143	1.16	PQL	ng/Kg	
	OCDF	JB	5.79	11.6	PQL	ng/Kg	
SL-198-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	1.34	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.189	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0875	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.200	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0874	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.194	5.33	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.145	5.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0592	5.33	PQL	ng/Kg	
	OCDF	JBQ	4.33	10.7	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX126

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
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369644	N	METHOD	1613B	IV
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369645	N	METHOD	1613B	IV
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369642	N	METHOD	1613B	IV
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369643	N	METHOD	1613B	IV
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369641	N	METHOD	1613B	IV
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369646	N	METHOD	1613B	IV
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369647	N	METHOD	1613B	IV
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371379	N	METHOD	1613B	IV
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371383	N	METHOD	1613B	IV
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371384	N	METHOD	1613B	IV
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371378	N	METHOD	1613B	IV
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371382	N	METHOD	1613B	IV
09-Aug-2011	EB-SA6-SB-080911	6371381	EB	METHOD	1613B	IV
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371380	N	METHOD	1613B	IV
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371385	N	METHOD	1613B	IV
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371386	MS	METHOD	1613B	IV
09-Aug-2011	DUP24-SA5DN-QC-080911	6371389	FD	METHOD	1613B	IV
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371388	N	METHOD	1613B	IV

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX126 Laboratory: LL

EDD Filename: DX126_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM
Method: 1613B **Matrix:** AQ

Sample ID: EB-SA6-SB-080911 *Collected:* 8/9/2011 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
1,2,3,4,6,7,8-HPCDD	4.38	JB	0.137	MDL	9.59	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.650	JB	0.0665	MDL	9.59	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.550	JBQ	0.0789	MDL	9.59	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.216	JBQ	0.0682	MDL	9.59	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.366	JBQ	0.116	MDL	9.59	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.223	JBQ	0.0665	MDL	9.59	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.452	JBQ	0.115	MDL	9.59	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.238	JBQ	0.115	MDL	9.59	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.163	JBQ	0.0657	MDL	9.59	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.162	JBQ	0.0603	MDL	9.59	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.292	JBQ	0.0549	MDL	9.59	PQL	pg/L	U	B
2,3,7,8-TCDD	0.344	JBQ	0.112	MDL	1.92	PQL	pg/L	U	B
OCDD	7.99	JBQ	0.139	MDL	19.2	PQL	pg/L	U	B
OCDF	1.02	JB	0.121	MDL	19.2	PQL	pg/L	U	B

Method Category: GENCHEM
Method: 1613B **Matrix:** SO

Sample ID: DUP24-SA5DN-QC-080911 *Collected:* 8/9/2011 3:28:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.699	JB	0.0455	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.122	JB	0.0220	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0441	JBQ	0.0279	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0520	JQ	0.0365	MDL	5.51	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.0763	JBQ	0.0255	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.0589	JBQ	0.0366	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0357	JBQ	0.0231	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.0440	JB	0.0355	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0396	JQ	0.0195	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.140	JBQ	0.0519	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0543	JQ	0.0257	MDL	5.51	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.0279	JBQ	0.0201	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.121	JQ	0.0258	MDL	5.51	PQL	ng/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: DX126 Laboratory: LL

EDD Filename: DX126_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: DUP24-SA5DN-QC-080911 *Collected:* 8/9/2011 3:28:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	4.76	JB	0.0378	MDL	11.0	PQL	ng/Kg	J	Z
OCDF	0.273	JQ	0.0532	MDL	11.0	PQL	ng/Kg	J	Z, FD

Sample ID: SL-009-SA5DN-SB-4.0-5.0 *Collected:* 8/9/2011 3:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.555	JBQ	0.0646	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0752	JB	0.0263	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0371	U	0.0371	MDL	5.51	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HxCDD	0.0410	U	0.0410	MDL	5.51	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.0284	U	0.0284	MDL	5.51	PQL	ng/Kg	UJ	FD
1,2,3,6,7,8-HXCDD	0.0715	JBQ	0.0427	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0234	U	0.0234	MDL	5.51	PQL	ng/Kg	UJ	FD
1,2,3,7,8,9-HXCDD	0.0813	JB	0.0427	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0413	J	0.0222	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0639	U	0.0639	MDL	5.51	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.125	JQ	0.0371	MDL	5.51	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.0278	JBQ	0.0224	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.100	J	0.0360	MDL	5.51	PQL	ng/Kg	J	Z
OCDD	4.04	JB	0.0486	MDL	11.0	PQL	ng/Kg	J	Z
OCDF	0.140	JQ	0.0598	MDL	11.0	PQL	ng/Kg	J	Z, FD

Sample ID: SL-009-SA5DN-SB-9.0-10.0 *Collected:* 8/9/2011 4:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.08	JBQ	0.0626	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.187	JBQ	0.0296	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.127	JQ	0.0408	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.135	JB	0.0317	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.194	JBQ	0.0401	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.129	JB	0.0413	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0954	JQ	0.0253	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.277	JB	0.0557	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.221	JQ	0.0311	MDL	5.56	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.142	JBQ	0.0245	MDL	5.56	PQL	ng/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: DX126 **Laboratory:** LL

EDD Filename: DX126_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-009-SA5DN-SB-9.0-10.0 *Collected:* 8/9/2011 4:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.186	J	0.0277	MDL	5.56	PQL	ng/Kg	J	Z
OCDD	9.81	JB	0.0374	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.381	J	0.0506	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-011-SA5DN-SB-4.0-5.0 *Collected:* 8/9/2011 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
1,2,3,4,6,7,8-HPCDD	0.429	JB	0.0674	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0885	JBQ	0.0261	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0521	JQ	0.0507	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0755	JBQ	0.0494	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0752	JBQ	0.0478	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0395	JBQ	0.0287	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0642	JQ	0.0344	MDL	5.60	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.105	J	0.102	MDL	1.12	PQL	ng/Kg	J	Z
OCDD	3.03	JB	0.0524	MDL	11.2	PQL	ng/Kg	J	Z
OCDF	0.225	JQ	0.0789	MDL	11.2	PQL	ng/Kg	J	Z

Sample ID: SL-012-SA5DN-SB-4.0-5.0 *Collected:* 8/9/2011 8:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.13	JB	0.0689	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.148	JB	0.0320	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.102	JB	0.0456	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.108	JBQ	0.0445	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.104	JQ	0.0308	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0749	JBQ	0.0631	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0624	JQ	0.0356	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0374	JQ	0.0343	MDL	5.04	PQL	ng/Kg	J	Z
OCDD	8.10	JB	0.0548	MDL	10.1	PQL	ng/Kg	J	Z
OCDF	0.534	J	0.0791	MDL	10.1	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX126 **Laboratory:** LL

EDD Filename: DX126_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-012-SA5DN-SB-9.0-10.0 *Collected:* 8/9/2011 9:30:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.913	JB	0.0508	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.110	JB	0.0221	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0600	JBQ	0.0364	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0380	JBQ	0.0287	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0236	JBQ	0.0236	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0566	JBQ	0.0387	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0363	JQ	0.0274	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0404	JQ	0.0328	MDL	5.80	PQL	ng/Kg	J	Z
OCDD	6.21	JB	0.0457	MDL	11.6	PQL	ng/Kg	J	Z
OCDF	0.182	JQ	0.0643	MDL	11.6	PQL	ng/Kg	J	Z

Sample ID: SL-031-SA6-SB-4.0-5.0 *Collected:* 8/8/2011 2:50:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.459	JBQ	0.0648	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.209	JBQ	0.0230	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0388	JB	0.0364	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0585	JQ	0.0531	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.106	JBQ	0.0472	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.197	JBQ	0.0537	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.101	JBQ	0.0398	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.316	JBQ	0.0510	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.232	J	0.0400	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.155	JBQ	0.0731	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.273	JQ	0.0410	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0634	JB	0.0357	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.216	J	0.0411	MDL	5.28	PQL	ng/Kg	J	Z
OCDD	2.31	JB	0.0460	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.448	JQ	0.0752	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-031-SA6-SB-9.0-10.0 *Collected:* 8/8/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.321	JBQ	0.0577	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0700	JBQ	0.0202	MDL	5.44	PQL	ng/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: DX126 Laboratory: LL

EDD Filename: DX126_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-031-SA6-SB-9.0-10.0 *Collected:* 8/8/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.0586	JB	0.0317	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.189	JBQ	0.0413	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.227	JB	0.0420	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.190	JBQ	0.0338	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.282	JBQ	0.0406	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.224	J	0.0310	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.333	JB	0.0681	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.300	J	0.0364	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0811	JBQ	0.0300	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.280	JQ	0.0368	MDL	5.44	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0974	JQ	0.0824	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	1.45	JB	0.0385	MDL	10.9	PQL	ng/Kg	J	Z
OCDF	0.145	J	0.0581	MDL	10.9	PQL	ng/Kg	J	Z

Sample ID: SL-042-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 9:56:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.451	JBQ	0.0504	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0336	JBQ	0.0252	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.305	JBQ	0.0497	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0525	JBQ	0.0328	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.938	JB	0.0485	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.231	J	0.0262	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.134	JB	0.0759	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.117	J	0.0347	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0338	JBQ	0.0242	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0695	JQ	0.0345	MDL	5.28	PQL	ng/Kg	J	Z
OCDD	1.71	JBQ	0.0367	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.152	J	0.0654	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-044-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 8:09:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.73	JB	0.0571	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0642	JBQ	0.0572	MDL	5.93	PQL	ng/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: DX126 Laboratory: LL

EDD Filename: DX126_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-044-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 8:09:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.221	JBQ	0.0912	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.626	JB	0.0731	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.160	JBQ	0.0721	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.420	JBQ	0.0701	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.122	JBQ	0.0700	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0862	JQ	0.0370	MDL	5.93	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.177	JBQ	0.0384	MDL	5.93	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0891	J	0.0342	MDL	5.93	PQL	ng/Kg	J	Z
OCDF	2.00	J	0.0700	MDL	11.9	PQL	ng/Kg	J	Z

Sample ID: SL-049-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 2:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.596	JBQ	0.0565	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0463	JB	0.0213	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.153	JBQ	0.0492	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0324	JBQ	0.0274	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.318	JB	0.0467	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0880	JQ	0.0296	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0684	JBQ	0.0615	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0455	J	0.0336	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0657	JQ	0.0326	MDL	5.34	PQL	ng/Kg	J	Z
OCDD	1.49	JBQ	0.0521	MDL	10.7	PQL	ng/Kg	J	Z
OCDF	0.126	J	0.0722	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-083-SA5DN-SB-4.0-5.0 *Collected:* 8/8/2011 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
1,2,3,4,6,7,8-HPCDD	2.91	JB	0.0637	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.190	JB	0.0151	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0449	JQ	0.0342	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0584	JQ	0.0424	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0504	JBQ	0.0251	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.191	JBQ	0.0445	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.231	JBQ	0.0444	MDL	5.56	PQL	ng/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: DX126 Laboratory: LL

EDD Filename: DX126_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-083-SA5DN-SB-4.0-5.0 *Collected:* 8/8/2011 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
1,2,3,7,8,9-HXCDF	0.0701	JBQ	0.0314	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.111	JBQ	0.0298	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0369	JBQ	0.0237	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0869	JBQ	0.0288	MDL	5.56	PQL	ng/Kg	U	B
OCDF	0.751	J	0.0753	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-153-SA5DN-SB-4.0-5.0 *Collected:* 8/8/2011 8:34:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.195	JB	0.0709	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0366	JBQ	0.0313	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.271	JBQ	0.0578	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.383	JBQ	0.0555	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.849	J	0.0380	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.109	J	0.0475	MDL	5.67	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0387	JBQ	0.0373	MDL	5.67	PQL	ng/Kg	U	B
OCDD	0.939	JB	0.0493	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-153-SA5DN-SB-7.0-8.0 *Collected:* 8/8/2011 9:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.344	JB	0.0541	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0684	JBQ	0.0206	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0970	JQ	0.0529	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0418	JBQ	0.0386	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0802	JBQ	0.0517	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.149	JQ	0.0273	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0512	JQ	0.0371	MDL	5.55	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0619	J	0.0371	MDL	5.55	PQL	ng/Kg	J	Z
OCDD	0.999	JB	0.0421	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.141	JQ	0.0637	MDL	11.1	PQL	ng/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: DX126 **Laboratory:** LL

EDD Filename: DX126_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-273-SA6-SB-4.0-5.0 *Collected:* 8/8/2011 8:20:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.402	JB	0.0617	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0392	JB	0.0244	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0470	JBQ	0.0338	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0695	JBQ	0.0496	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0470	JBQ	0.0274	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0550	JQ	0.0285	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0845	JQ	0.0398	MDL	5.25	PQL	ng/Kg	J	Z
OCDD	0.616	JBQ	0.0383	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.183	JQ	0.0677	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-273-SA6-SB-9.0-10.0 *Collected:* 8/8/2011 8:30:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.478	JB	0.0663	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.131	JBQ	0.0247	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0495	JB	0.0352	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.109	JBQ	0.0541	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0856	JBQ	0.0370	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.226	JBQ	0.0528	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.129	J	0.0353	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0992	JQ	0.0389	MDL	5.65	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0332	JBQ	0.0296	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0772	JQ	0.0389	MDL	5.65	PQL	ng/Kg	J	Z
OCDD	1.09	JBQ	0.0381	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.228	JQ	0.0748	MDL	11.3	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX126 **Laboratory: LL**

EDD Filename: DX126_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DX126 **Laboratory: LL**

EDD Filename: DX126_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

Data Qualifier Summary

Lab Reporting Batch ID: DX126 **Laboratory: LL**

EDD Filename: DX126_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX126

Method Blank Outlier Report

Lab Reporting Batch ID: DX126 Laboratory: LL

EDD Filename: DX126_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2240B371404	8/16/2011 2:04:00 PM	1,2,3,4,6,7,8-HPCDD	3.99 pg/L	EB-SA6-SB-080911
		1,2,3,4,6,7,8-HPCDF	0.817 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.551 pg/L	
		1,2,3,4,7,8-HxCDD	0.200 pg/L	
		1,2,3,4,7,8-HXCDF	0.405 pg/L	
		1,2,3,6,7,8-HXCDD	0.373 pg/L	
		1,2,3,6,7,8-HXCDF	0.218 pg/L	
		1,2,3,7,8,9-HXCDD	0.458 pg/L	
		1,2,3,7,8,9-HXCDF	0.595 pg/L	
		1,2,3,7,8-PECDD	0.437 pg/L	
		1,2,3,7,8-PECDF	0.280 pg/L	
		2,3,4,6,7,8-HXCDF	0.268 pg/L	
		2,3,4,7,8-PECDF	0.450 pg/L	
		2,3,7,8-TCDD	0.457 pg/L	
		2,3,7,8-TCDF	0.139 pg/L	
		OCDD	8.97 pg/L	
		OCDF	1.57 pg/L	

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-080911(RES)	1,2,3,4,6,7,8-HPCDD	4.38 pg/L	4.38U pg/L
EB-SA6-SB-080911(RES)	1,2,3,4,6,7,8-HPCDF	0.650 pg/L	0.650U pg/L
EB-SA6-SB-080911(RES)	1,2,3,4,7,8,9-HPCDF	0.550 pg/L	0.550U pg/L
EB-SA6-SB-080911(RES)	1,2,3,4,7,8-HXCDF	0.216 pg/L	0.216U pg/L
EB-SA6-SB-080911(RES)	1,2,3,6,7,8-HXCDD	0.366 pg/L	0.366U pg/L
EB-SA6-SB-080911(RES)	1,2,3,6,7,8-HXCDF	0.223 pg/L	0.223U pg/L
EB-SA6-SB-080911(RES)	1,2,3,7,8,9-HXCDD	0.452 pg/L	0.452U pg/L
EB-SA6-SB-080911(RES)	1,2,3,7,8-PECDD	0.238 pg/L	0.238U pg/L
EB-SA6-SB-080911(RES)	1,2,3,7,8-PECDF	0.163 pg/L	0.163U pg/L
EB-SA6-SB-080911(RES)	2,3,4,6,7,8-HXCDF	0.162 pg/L	0.162U pg/L
EB-SA6-SB-080911(RES)	2,3,4,7,8-PECDF	0.292 pg/L	0.292U pg/L
EB-SA6-SB-080911(RES)	2,3,7,8-TCDD	0.344 pg/L	0.344U pg/L
EB-SA6-SB-080911(RES)	OCDD	7.99 pg/L	7.99U pg/L
EB-SA6-SB-080911(RES)	OCDF	1.02 pg/L	1.02U pg/L

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2310B371554	8/22/2011 3:54:00 PM	1,2,3,4,6,7,8-HPCDD	0.206 ng/Kg	DUP24-SA5DN-QC-080911
		1,2,3,4,6,7,8-HPCDF	0.0461 ng/Kg	SL-009-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0425 ng/Kg	SL-009-SA5DN-SB-9.0-10.0
		1,2,3,4,7,8-HXCDF	0.0624 ng/Kg	SL-011-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0497 ng/Kg	SL-012-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0816 ng/Kg	SL-012-SA5DN-SB-9.0-10.0
		1,2,3,7,8,9-HXCDD	0.0511 ng/Kg	SL-031-SA6-SB-4.0-5.0
		1,2,3,7,8-PECDD	0.0911 ng/Kg	SL-031-SA6-SB-9.0-10.0
		2,3,4,6,7,8-HXCDF	0.0440 ng/Kg	SL-042-SA6-SB-2.5-3.5
		OCDD	0.280 ng/Kg	SL-044-SA6-SB-2.5-3.5
				SL-049-SA6-SB-2.5-3.5
				SL-153-SA5DN-SB-4.0-5.0
				SL-153-SA5DN-SB-7.0-8.0
				SL-273-SA6-SB-4.0-5.0
				SL-273-SA6-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DX126 **Laboratory: LL**

EDD Filename: DX126_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2380B370305	8/30/2011 3:05:00 AM	1,2,3,4,6,7,8-HPCDD	0.236 ng/Kg	SL-083-SA5DN-SB-4.0-5.0
		1,2,3,4,6,7,8-HPCDF	0.0494 ng/Kg	
		1,2,3,4,7,8-HXCDF	0.0519 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0513 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0537 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0428 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0356 ng/Kg	
		1,2,3,7,8-PECDD	0.0682 ng/Kg	
		1,2,3,7,8-PECDF	0.0365 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0234 ng/Kg	
		2,3,4,7,8-PECDF	0.0544 ng/Kg	
		OCDD	0.426 ng/Kg	

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
DUP24-SA5DN-QC-080911(RES)	1,2,3,4,6,7,8-HPCDD	0.699 ng/Kg	0.699U ng/Kg
DUP24-SA5DN-QC-080911(RES)	1,2,3,4,6,7,8-HPCDF	0.122 ng/Kg	0.122U ng/Kg
DUP24-SA5DN-QC-080911(RES)	1,2,3,4,7,8,9-HPCDF	0.0441 ng/Kg	0.0441U ng/Kg
DUP24-SA5DN-QC-080911(RES)	1,2,3,4,7,8-HXCDF	0.0763 ng/Kg	0.0763U ng/Kg
DUP24-SA5DN-QC-080911(RES)	1,2,3,6,7,8-HXCDD	0.0589 ng/Kg	0.0589U ng/Kg
DUP24-SA5DN-QC-080911(RES)	1,2,3,6,7,8-HXCDF	0.0357 ng/Kg	0.0357U ng/Kg
DUP24-SA5DN-QC-080911(RES)	1,2,3,7,8,9-HXCDD	0.0440 ng/Kg	0.0440U ng/Kg
DUP24-SA5DN-QC-080911(RES)	1,2,3,7,8-PECDD	0.140 ng/Kg	0.140U ng/Kg
DUP24-SA5DN-QC-080911(RES)	2,3,4,6,7,8-HXCDF	0.0279 ng/Kg	0.0279U ng/Kg
SL-009-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.555 ng/Kg	0.555U ng/Kg
SL-009-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0752 ng/Kg	0.0752U ng/Kg
SL-009-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0715 ng/Kg	0.0715U ng/Kg
SL-009-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0813 ng/Kg	0.0813U ng/Kg
SL-009-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0278 ng/Kg	0.0278U ng/Kg
SL-009-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.187 ng/Kg	0.187U ng/Kg
SL-009-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-009-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.194 ng/Kg	0.194U ng/Kg
SL-009-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.129 ng/Kg	0.129U ng/Kg
SL-009-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.277 ng/Kg	0.277U ng/Kg
SL-009-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.142 ng/Kg	0.142U ng/Kg
SL-011-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.429 ng/Kg	0.429U ng/Kg
SL-011-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0885 ng/Kg	0.0885U ng/Kg
SL-011-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0755 ng/Kg	0.0755U ng/Kg
SL-011-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0752 ng/Kg	0.0752U ng/Kg
SL-011-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0395 ng/Kg	0.0395U ng/Kg
SL-012-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.148 ng/Kg	0.148U ng/Kg
SL-012-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.102 ng/Kg	0.102U ng/Kg
SL-012-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.108 ng/Kg	0.108U ng/Kg
SL-012-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0749 ng/Kg	0.0749U ng/Kg
SL-012-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.913 ng/Kg	0.913U ng/Kg
SL-012-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.110 ng/Kg	0.110U ng/Kg
SL-012-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0600 ng/Kg	0.0600U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX126 **Laboratory: LL**

EDD Filename: DX126_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-012-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0380 ng/Kg	0.0380U ng/Kg
SL-012-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0236 ng/Kg	0.0236U ng/Kg
SL-012-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0566 ng/Kg	0.0566U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.459 ng/Kg	0.459U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.209 ng/Kg	0.209U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0388 ng/Kg	0.0388U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.106 ng/Kg	0.106U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.197 ng/Kg	0.197U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.101 ng/Kg	0.101U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.155 ng/Kg	0.155U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0634 ng/Kg	0.0634U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.321 ng/Kg	0.321U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0700 ng/Kg	0.0700U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0586 ng/Kg	0.0586U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.189 ng/Kg	0.189U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.227 ng/Kg	0.227U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.190 ng/Kg	0.190U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.333 ng/Kg	0.333U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0811 ng/Kg	0.0811U ng/Kg
SL-042-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.451 ng/Kg	0.451U ng/Kg
SL-042-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0336 ng/Kg	0.0336U ng/Kg
SL-042-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0525 ng/Kg	0.0525U ng/Kg
SL-042-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.134 ng/Kg	0.134U ng/Kg
SL-042-SA6-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.0338 ng/Kg	0.0338U ng/Kg
SL-044-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0642 ng/Kg	0.0642U ng/Kg
SL-044-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.221 ng/Kg	0.221U ng/Kg
SL-044-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.160 ng/Kg	0.160U ng/Kg
SL-044-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.122 ng/Kg	0.122U ng/Kg
SL-044-SA6-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.177 ng/Kg	0.177U ng/Kg
SL-049-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.596 ng/Kg	0.596U ng/Kg
SL-049-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0463 ng/Kg	0.0463U ng/Kg
SL-049-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDD	0.153 ng/Kg	0.153U ng/Kg
SL-049-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0324 ng/Kg	0.0324U ng/Kg
SL-049-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.0684 ng/Kg	0.0684U ng/Kg
SL-083-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.190 ng/Kg	0.190U ng/Kg
SL-083-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0504 ng/Kg	0.0504U ng/Kg
SL-083-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.191 ng/Kg	0.191U ng/Kg
SL-083-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0701 ng/Kg	0.0701U ng/Kg
SL-083-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.111 ng/Kg	0.111U ng/Kg
SL-083-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0369 ng/Kg	0.0369U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX126 Laboratory: LL

EDD Filename: DX126_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-083-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0869 ng/Kg	0.0869U ng/Kg
SL-153-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.195 ng/Kg	0.195U ng/Kg
SL-153-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0366 ng/Kg	0.0366U ng/Kg
SL-153-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0387 ng/Kg	0.0387U ng/Kg
SL-153-SA5DN-SB-4.0-5.0(RES)	OCDD	0.939 ng/Kg	0.939U ng/Kg
SL-153-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	0.344 ng/Kg	0.344U ng/Kg
SL-153-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0684 ng/Kg	0.0684U ng/Kg
SL-153-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,7,8-HXCDF	0.0418 ng/Kg	0.0418U ng/Kg
SL-153-SA5DN-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDD	0.0802 ng/Kg	0.0802U ng/Kg
SL-153-SA5DN-SB-7.0-8.0(RES)	OCDD	0.999 ng/Kg	0.999U ng/Kg
SL-273-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.402 ng/Kg	0.402U ng/Kg
SL-273-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0392 ng/Kg	0.0392U ng/Kg
SL-273-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0470 ng/Kg	0.0470U ng/Kg
SL-273-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0695 ng/Kg	0.0695U ng/Kg
SL-273-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0470 ng/Kg	0.0470U ng/Kg
SL-273-SA6-SB-4.0-5.0(RES)	OCDD	0.616 ng/Kg	0.616U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.478 ng/Kg	0.478U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.131 ng/Kg	0.131U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0495 ng/Kg	0.0495U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.109 ng/Kg	0.109U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0856 ng/Kg	0.0856U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.226 ng/Kg	0.226U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0332 ng/Kg	0.0332U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	OCDD	1.09 ng/Kg	1.09U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX126 Laboratory: LL

EDD Filename: DX126_v1 eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
MOISTURE	9.8	10.9	11		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
1,2,3,4,6,7,8-HPCDD	0.555	0.699	23	50.00	
1,2,3,4,6,7,8-HPCDF	0.0752	0.122	47	50.00	
1,2,3,6,7,8-HXCDD	0.0715	0.0589	19	50.00	
1,2,3,7,8,9-HXCDF	0.0413	0.0396	4	50.00	No Qualifiers Applied
2,3,4,6,7,8-HXCDF	0.0278	0.0279	0	50.00	
2,3,4,7,8-PECDF	0.100	0.121	19	50.00	
OCDD	4.04	4.76	16	50.00	
1,2,3,4,7,8,9-HPCDF	5.51 U	0.0441	200	50.00	
1,2,3,4,7,8-HxCDD	5.51 U	0.0520	200	50.00	
1,2,3,4,7,8-HXCDF	5.51 U	0.0763	200	50.00	
1,2,3,6,7,8-HXCDF	5.51 U	0.0357	200	50.00	J(all detects)
1,2,3,7,8,9-HXCDD	0.0813	0.0440	60	50.00	UJ(all non-detects)
1,2,3,7,8-PECDD	5.51 U	0.140	200	50.00	
1,2,3,7,8-PECDF	0.125	0.0543	79	50.00	
OCDF	0.140	0.273	64	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX126 | Laboratory: LL

EDD Filename: DX126_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080911	1,2,3,4,6,7,8-HPCDD	JB	4.38	9.59	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.650	9.59	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.550	9.59	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.216	9.59	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.366	9.59	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.223	9.59	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.452	9.59	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.238	9.59	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.163	9.59	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.162	9.59	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.292	9.59	PQL	pg/L	
	2,3,7,8-TCDD	JBQ	0.344	1.92	PQL	pg/L	
	OCDD	JBQ	7.99	19.2	PQL	pg/L	
	OCDF	JB	1.02	19.2	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA5DN-QC-080911	1,2,3,4,6,7,8-HPCDD	JB	0.699	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.122	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0441	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0520	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0763	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0589	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0357	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0440	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0396	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.140	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0543	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0279	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.121	5.51	PQL	ng/Kg	
	OCDD	JB	4.76	11.0	PQL	ng/Kg	
	OCDF	JQ	0.273	11.0	PQL	ng/Kg	
SL-009-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.555	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0752	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0715	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0813	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.0413	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.125	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0278	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.100	5.51	PQL	ng/Kg	
	OCDD	JB	4.04	11.0	PQL	ng/Kg	
	OCDF	JQ	0.140	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX126 **Laboratory: LL**

EDD Filename: DX126_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	1.08	5.56	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.187	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.127	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.135	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.194	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.129	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0954	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.277	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.221	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.142	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.186	5.56	PQL	ng/Kg	
	OCDD	JB	9.81	11.1	PQL	ng/Kg	
	OCDF	J	0.381	11.1	PQL	ng/Kg	
SL-011-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.429	5.60	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0885	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0521	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0755	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0752	5.60	PQL	ng/Kg	J (all detects)
	2,3,4,6,7,8-HXCDF	JBQ	0.0395	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0642	5.60	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.105	1.12	PQL	ng/Kg	
	OCDD	JB	3.03	11.2	PQL	ng/Kg	
	OCDF	JQ	0.225	11.2	PQL	ng/Kg	
SL-012-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.13	5.04	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.148	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.102	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.108	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.104	5.04	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0749	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0624	5.04	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0374	5.04	PQL	ng/Kg	
	OCDD	JB	8.10	10.1	PQL	ng/Kg	
	OCDF	J	0.534	10.1	PQL	ng/Kg	
SL-012-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.913	5.80	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.110	5.80	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0600	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0380	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0236	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0566	5.80	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0363	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0404	5.80	PQL	ng/Kg	
	OCDD	JB	6.21	11.6	PQL	ng/Kg	
	OCDF	JQ	0.182	11.6	PQL	ng/Kg	
SL-031-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.459	5.28	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.209	5.28	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0388	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0585	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.106	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.197	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.101	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.316	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.232	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.155	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.273	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0634	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.216	5.28	PQL	ng/Kg	
	OCDD	JB	2.31	10.6	PQL	ng/Kg	
	OCDF	JQ	0.448	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX126 **Laboratory: LL**

EDD Filename: DX126_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.321	5.44	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0700	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0586	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.189	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.227	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.190	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.282	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.224	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.333	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.300	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0811	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.280	5.44	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0974	1.09	PQL	ng/Kg	
	OCDD	JB	1.45	10.9	PQL	ng/Kg	
	OCDF	J	0.145	10.9	PQL	ng/Kg	
SL-042-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.451	5.28	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0336	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.305	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0525	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.938	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.231	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.134	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.117	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0338	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0695	5.28	PQL	ng/Kg	
	OCDD	JBQ	1.71	10.6	PQL	ng/Kg	
	OCDF	J	0.152	10.6	PQL	ng/Kg	
SL-044-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDF	JB	1.73	5.93	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0642	5.93	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.221	5.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.626	5.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.160	5.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.420	5.93	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.122	5.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0862	5.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.177	5.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.0891	5.93	PQL	ng/Kg	
	OCDF	J	2.00	11.9	PQL	ng/Kg	
SL-049-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.596	5.34	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0463	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.153	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0324	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.318	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0880	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0684	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.0455	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0657	5.34	PQL	ng/Kg	
	OCDD	JBQ	1.49	10.7	PQL	ng/Kg	
	OCDF	J	0.126	10.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX126 **Laboratory: LL**

EDD Filename: DX126_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-083-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.91	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.190	5.56	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0449	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0584	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0504	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.191	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.231	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0701	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.111	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0369	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0869	5.56	PQL	ng/Kg	
	OCDF	J	0.751	11.1	PQL	ng/Kg	
SL-153-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.195	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0366	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.271	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.383	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.849	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.109	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0387	5.67	PQL	ng/Kg	
	OCDD	JB	0.939	11.3	PQL	ng/Kg	
SL-153-SA5DN-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JB	0.344	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0684	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0970	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0418	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0802	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.149	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0512	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.0619	5.55	PQL	ng/Kg	
	OCDD	JB	0.999	11.1	PQL	ng/Kg	
	OCDF	JQ	0.141	11.1	PQL	ng/Kg	
SL-273-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.402	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0392	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0470	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0695	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0470	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0550	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0845	5.25	PQL	ng/Kg	
	OCDD	JBQ	0.616	10.5	PQL	ng/Kg	
	OCDF	JQ	0.183	10.5	PQL	ng/Kg	
SL-273-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.478	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.131	5.65	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0495	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.109	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0856	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.226	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.129	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0992	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0332	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0772	5.65	PQL	ng/Kg	
	OCDD	JBQ	1.09	11.3	PQL	ng/Kg	
	OCDF	JQ	0.228	11.3	PQL	ng/Kg	

Enclosure II

Level IV Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: August 8 through August 9, 2011

LDC Report Date: December 28, 2011

Matrix: Soil/Water

Parameters: Dioxins/Dibenzofurans

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DX126

Sample Identification

SL-083-SA5DN-SB-4.0-5.0
SL-153-SA5DN-SB-4.0-5.0
SL-153-SA5DN-SB-7.0-8.0
SL-273-SA6-SB-4.0-5.0
SL-273-SA6-SB-9.0-10.0
SL-031-SA6-SB-4.0-5.0
SL-031-SA6-SB-9.0-10.0
SL-042-SA6-SB-2.5-3.5
SL-044-SA6-SB-2.5-3.5
SL-049-SA6-SB-2.5-3.5
EB-SA6-SB-080911
SL-011-SA5DN-SB-4.0-5.0
SL-012-SA5DN-SB-4.0-5.0
SL-012-SA5DN-SB-9.0-10.0
SL-009-SA5DN-SB-4.0-5.0
SL-009-SA5DN-SB-9.0-10.0
DUP24-SA5DN-QC-080911
SL-009-SA5DN-SB-4.0-5.0MS
SL-009-SA5DN-SB-4.0-5.0MSD

Introduction

This data review covers 18 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1613B for Polychlorinated Dioxins/Dibenzofurans.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and the USEPA Contract Laboratory Program National Functional Guidelines for Polychlorinated Dioxins/Dibenzofurans Data Review (September 2005).

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

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

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

II. HRGC/HRMS Instrument Performance Check

Instrument performance was checked at the required daily frequency.

The chromatographic resolution between 2,3,7,8-TCDD and the peaks representing any other unlabeled TCDD isomers was resolved with a valley of less than or equal to 25%.

PFK and static resolving power were within validation criteria.

III. Initial Calibration

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for unlabeled compounds and less than or equal to 35.0% for labeled compounds.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

The minimum S/N ratio was greater than or equal to 10 for each unlabeled compound and labeled compound.

IV. Routine Calibration (Continuing)

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were within QC limits.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated dioxin/dibenzofuran contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
BLK224001	8/12/11	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.139 pg/L 0.457 pg/L 0.280 pg/L 0.450 pg/L 0.437 pg/L 0.405 pg/L 0.218 pg/L 0.268 pg/L 0.200 pg/L 0.373 pg/L 0.458 pg/L 0.595 pg/L 0.817 pg/L 3.99 pg/L 0.551 pg/L 8.97 pg/L 1.57 pg/L	All water samples in SDG DX126
BLK231004	8/19/11	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD	0.0911 ng/Kg 0.0624 ng/Kg 0.0816 ng/Kg 0.0440 ng/Kg 0.0497 ng/Kg 0.0511 ng/Kg 0.0461 ng/Kg 0.206 ng/Kg 0.0425 ng/Kg 0.280 ng/Kg	SL-153-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-7.0-8.0 SL-273-SA6-SB-4.0-5.0 SL-273-SA6-SB-9.0-10.0 SL-031-SA6-SB-4.0-5.0 SL-031-SA6-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 DUP24-SA5DN-QC-080911
BLK238001	8/19/11	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDD	0.0365 ng/Kg 0.0544 ng/Kg 0.0682 ng/Kg 0.0519 ng/Kg 0.0537 ng/Kg 0.0234 ng/Kg 0.0513 ng/Kg 0.0428 ng/Kg 0.0356 ng/Kg 0.0494 ng/Kg 0.236 ng/Kg 0.426 ng/Kg	SL-083-SA5DN-SB-4.0-5.0

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

Sample	Compound	Reported Concentration	Modified Final Concentration
EB-SA6-SB-080911	2,3,7,8-TCDD	0.344 pg/L	0.344U pg/L
	1,2,3,7,8-PeCDF	0.163 pg/L	0.163U pg/L
	2,3,4,7,8-PeCDF	0.292 pg/L	0.292U pg/L
	1,2,3,7,8-PeCDD	0.238 pg/L	0.238U pg/L
	1,2,3,4,7,8-HxCDF	0.216 pg/L	0.216U pg/L
	1,2,3,6,7,8-HxCDF	0.223 pg/L	0.223U pg/L
	2,3,4,6,7,8-HxCDF	0.162 pg/L	0.162U pg/L
	1,2,3,6,7,8-HxCDD	0.366 pg/L	0.366U pg/L
	1,2,3,7,8,9-HxCDD	0.452 pg/L	0.452U pg/L
	1,2,3,4,6,7,8-HpCDF	0.650 pg/L	0.650U pg/L
	1,2,3,4,6,7,8-HpCDD	4.38 pg/L	4.38U pg/L
	1,2,3,4,7,8,9-HpCDF	0.550 pg/L	0.550U pg/L
	OCDD	7.99 pg/L	7.99U pg/L
	OCDF	1.02 pg/L	1.02U pg/L
SL-153-SA5DN-SB-4.0-5.0	2,3,4,6,7,8-HxCDF	0.0387 ng/Kg	0.0387U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0366 ng/Kg	0.0366U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.195 ng/Kg	0.195U ng/Kg
	OCDD	0.939 ng/Kg	0.939U ng/Kg
SL-153-SA5DN-SB-7.0-8.0	1,2,3,4,7,8-HxCDF	0.0418 ng/Kg	0.0418U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0802 ng/Kg	0.0802U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0684 ng/Kg	0.0684U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.344 ng/Kg	0.344U ng/Kg
	OCDD	0.999 ng/Kg	0.999U ng/Kg
SL-273-SA6-SB-4.0-5.0	1,2,3,4,7,8-HxCDF	0.0470 ng/Kg	0.0470U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0470 ng/Kg	0.0470U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0695 ng/Kg	0.0695U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0392 ng/Kg	0.0392U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.402 ng/Kg	0.402U ng/Kg
	OCDD	0.616 ng/Kg	0.616U ng/Kg
SL-273-SA6-SB-9.0-10.0	1,2,3,6,7,8-HxCDF	0.0856 ng/Kg	0.0856U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0332 ng/Kg	0.0332U ng/Kg
	1,2,3,6,7,8-HxCDD	0.109 ng/Kg	0.109U ng/Kg
	1,2,3,7,8,9-HxCDD	0.226 ng/Kg	0.226U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.131 ng/Kg	0.131U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.478 ng/Kg	0.478U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0495 ng/Kg	0.0495U ng/Kg
	OCDD	1.09 ng/Kg	1.09U ng/Kg
SL-031-SA6-SB-4.0-5.0	1,2,3,7,8-PeCDD	0.155 ng/Kg	0.155U ng/Kg
	1,2,3,4,7,8-HxCDF	0.106 ng/Kg	0.106U ng/Kg
	1,2,3,6,7,8-HxCDF	0.101 ng/Kg	0.101U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0634 ng/Kg	0.0634U ng/Kg
	1,2,3,6,7,8-HxCDD	0.197 ng/Kg	0.197U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.209 ng/Kg	0.209U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.459 ng/Kg	0.459U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0388 ng/Kg	0.0388U ng/Kg
SL-031-SA6-SB-9.0-10.0	1,2,3,7,8-PeCDD	0.333 ng/Kg	0.333U ng/Kg
	1,2,3,4,7,8-HxCDF	0.189 ng/Kg	0.189U ng/Kg
	1,2,3,6,7,8-HxCDF	0.190 ng/Kg	0.190U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0811 ng/Kg	0.0811U ng/Kg
	1,2,3,6,7,8-HxCDD	0.227 ng/Kg	0.227U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0700 ng/Kg	0.0700U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.321 ng/Kg	0.321U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0586 ng/Kg	0.0586U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-042-SA6-SB-2.5-3.5	1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD	0.134 ng/Kg 0.0525 ng/Kg 0.0338 ng/Kg 0.0336 ng/Kg 0.451 ng/Kg	0.134U ng/Kg 0.0525U ng/Kg 0.0338U ng/Kg 0.0336U ng/Kg 0.451U ng/Kg
SL-044-SA6-SB-2.5-3.5	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8,9-HpCDF	0.122 ng/Kg 0.221 ng/Kg 0.160 ng/Kg 0.177 ng/Kg 0.0642 ng/Kg	0.122U ng/Kg 0.221U ng/Kg 0.160U ng/Kg 0.177U ng/Kg 0.0642U ng/Kg
SL-049-SA6-SB-2.5-3.5	1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD	0.0684 ng/Kg 0.0324 ng/Kg 0.153 ng/Kg 0.0463 ng/Kg 0.596 ng/Kg	0.0684U ng/Kg 0.0324U ng/Kg 0.153U ng/Kg 0.0463U ng/Kg 0.596U ng/Kg
SL-011-SA5DN-SB-4.0-5.0	2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDD 1,2,3,4,6,7,8-HpCDF	0.0395 ng/Kg 0.0755 ng/Kg 0.0752 ng/Kg 0.429 ng/Kg 0.0885 ng/Kg	0.0395U ng/Kg 0.0755U ng/Kg 0.0752U ng/Kg 0.429U ng/Kg 0.0885U ng/Kg
SL-012-SA5DN-SB-4.0-5.0	1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF	0.0749 ng/Kg 0.102 ng/Kg 0.108 ng/Kg 0.148 ng/Kg	0.0749U ng/Kg 0.102U ng/Kg 0.108U ng/Kg 0.148U ng/Kg
SL-012-SA5DN-SB-9.0-10.0	1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF	0.0380 ng/Kg 0.0236 ng/Kg 0.0566 ng/Kg 0.110 ng/Kg 0.913 ng/Kg 0.0600 ng/Kg	0.0380U ng/Kg 0.0236U ng/Kg 0.0566U ng/Kg 0.110U ng/Kg 0.913U ng/Kg 0.0600U ng/Kg
SL-009-SA5DN-SB-4.0-5.0	2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD	0.0278 ng/Kg 0.0715 ng/Kg 0.0813 ng/Kg 0.0752 ng/Kg 0.555 ng/Kg	0.0278U ng/Kg 0.0715U ng/Kg 0.0813U ng/Kg 0.0752U ng/Kg 0.555U ng/Kg
SL-009-SA5DN-SB-9.0-10.0	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF	0.277 ng/Kg 0.135 ng/Kg 0.142 ng/Kg 0.194 ng/Kg 0.129 ng/Kg 0.187 ng/Kg	0.277U ng/Kg 0.135U ng/Kg 0.142U ng/Kg 0.194U ng/Kg 0.129U ng/Kg 0.187U ng/Kg
DUP24-SA5DN-QC-080911	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF	0.140 ng/Kg 0.0763 ng/Kg 0.0357 ng/Kg 0.0279 ng/Kg 0.0589 ng/Kg 0.0440 ng/Kg 0.122 ng/Kg 0.699 ng/Kg 0.0441 ng/Kg	0.140U ng/Kg 0.0763U ng/Kg 0.0357U ng/Kg 0.0279U ng/Kg 0.0589U ng/Kg 0.0440U ng/Kg 0.122U ng/Kg 0.699U ng/Kg 0.0441U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-083-SA5DN-SB-4.0-5.0	1,2,3,7,8-PeCDF	0.111 ng/Kg	0.111U ng/Kg
	2,3,4,7,8-PeCDF	0.0869 ng/Kg	0.0869U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0504 ng/Kg	0.0504U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0369 ng/Kg	0.0369U ng/Kg
	1,2,3,6,7,8-HxCDD	0.191 ng/Kg	0.191U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0701 ng/Kg	0.0701U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.190 ng/Kg	0.190U ng/Kg

Sample EB-SA6-SB-080911 was identified as an equipment blank. No polychlorinated dioxin/dibenzofuran contaminants were found with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB-SA6-SB-080911	8/9/11	2,3,7,8-TCDD	0.344 pg/L	SL-042-SA6-SB-2.5-3.5
		1,2,3,7,8-PeCDF	0.163 pg/L	SL-044-SA6-SB-2.5-3.5
		2,3,4,7,8-PeCDF	0.292 pg/L	SL-049-SA6-SB-2.5-3.5
		1,2,3,7,8-PeCDD	0.238 pg/L	
		1,2,3,4,7,8-HxCDF	0.216 pg/L	
		1,2,3,6,7,8-HxCDF	0.223 pg/L	
		2,3,4,6,7,8-HxCDF	0.162 pg/L	
		1,2,3,6,7,8-HxCDD	0.366 pg/L	
		1,2,3,7,8,9-HxCDD	0.452 pg/L	
		1,2,3,4,6,7,8-HpCDF	0.650 pg/L	
		1,2,3,4,6,7,8-HpCDD	4.38 pg/L	
		1,2,3,4,7,8,9-HpCDF	0.550 pg/L	
		OCDD	7.99 pg/L	
		OCDF	1.02 pg/L	

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

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Laboratory Control Samples (LCS)

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

VIII. Regional Quality Assurance and Quality Control

Not applicable.

IX. Internal Standards

All internal standard recoveries were within QC limits.

X. Target Compound Identifications

All target compound identifications were within validation criteria.

XI. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DX126	All compounds reported below the RL.	J (all detects)	A

XII. System Performance

The system performance was acceptable.

XIII. Overall Assessment of Data

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

XIV. Field Duplicates

Samples SL-009-SA5DN-SB-4.0-5.0 and DUP24-SA5DN-QC-080911 were identified as field duplicates. No polychlorinated dioxins/dibenzofurans were detected in any of the samples with the following exceptions:

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
1,2,3,7,8-PeCDF	0.125	0.0543	79 (≤50)	J (all detects)	A
2,3,4,7,8-PeCDF	0.100	0.121	19 (≤50)	-	-
1,2,3,7,8-PeCDD	5.51U	0.140	200 (≤50)	J (all detects) UJ (all non-detects)	A
1,2,3,4,7,8-HxCDF	5.51U	0.0763	200 (≤50)	J (all detects) UJ (all non-detects)	A

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
1,2,3,6,7,8-HxCDF	5.51U	0.0357	200 (≤50)	J (all detects) UJ (all non-detects)	A
2,3,4,6,7,8-HxCDF	0.0278	0.0279	0 (≤50)	-	-
1,2,3,4,7,8-HxCDD	5.51U	0.0520	200 (≤50)	J (all detects) UJ (all non-detects)	A
1,2,3,6,7,8-HxCDD	0.0715	0.0589	19 (≤50)	-	-
1,2,3,7,8,9-HxCDD	0.0813	0.0440	60 (≤50)	J (all detects)	A
1,2,3,7,8,9-HxCDF	0.0413	0.0396	4 (≤50)	-	-
1,2,3,4,6,7,8-HpCDF	0.0752	0.122	47 (≤50)	-	-
1,2,3,4,6,7,8-HpCDD	0.555	0.699	23 (≤50)	-	-
1,2,3,4,7,8,9-HpCDF	5.51U	0.0441	200 (≤50)	J (all detects) UJ (all non-detects)	A
OCDD	4.04	4.76	16 (≤50)	-	-
OCDF	0.140	0.273	64 (≤50)	J (all detects)	A

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Data Qualification Summary - SDG DX126

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DX126	SL-083-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-7.0-8.0 SL-273-SA6-SB-4.0-5.0 SL-273-SA6-SB-9.0-10.0 SL-031-SA6-SB-4.0-5.0 SL-031-SA6-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5 EB-SA6-SB-080911 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 DUP24-SA5DN-QC-080911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)
DX126	SL-009-SA5DN-SB-4.0-5.0 DUP24-SA5DN-QC-080911	1,2,3,7,8-PeCDF 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF	J (all detects) J (all detects) J (all detects)	A	Field duplicates (RPD) (FD)
DX126	SL-009-SA5DN-SB-4.0-5.0 DUP24-SA5DN-QC-080911	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8,9-HpCDF	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Laboratory Blank Data Qualification Summary - SDG DX126

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX126	EB-SA6-SB-080911	2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.344U pg/L 0.163U pg/L 0.292U pg/L 0.238U pg/L 0.216U pg/L 0.223U pg/L 0.162U pg/L 0.366U pg/L 0.452U pg/L 0.650U pg/L 4.38U pg/L 0.550U pg/L 7.99U pg/L 1.02U pg/L	A	B
DX126	SL-153-SA5DN-SB-4.0-5.0	2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDD	0.0387U ng/Kg 0.0366U ng/Kg 0.195U ng/Kg 0.939U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX126	SL-153-SA5DN-SB-7.0-8.0	1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDD	0.0418U ng/Kg 0.0802U ng/Kg 0.0684U ng/Kg 0.344U ng/Kg 0.999U ng/Kg	A	B
DX126	SL-273-SA6-SB-4.0-5.0	1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDD	0.0470U ng/Kg 0.0470U ng/Kg 0.0695U ng/Kg 0.0392U ng/Kg 0.402U ng/Kg 0.616U ng/Kg	A	B
DX126	SL-273-SA6-SB-9.0-10.0	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD	0.0856U ng/Kg 0.0332U ng/Kg 0.109U ng/Kg 0.226U ng/Kg 0.131U ng/Kg 0.478U ng/Kg 0.0495U ng/Kg 1.09U ng/Kg	A	B
DX126	SL-031-SA6-SB-4.0-5.0	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF	0.155U ng/Kg 0.106U ng/Kg 0.101U ng/Kg 0.0634U ng/Kg 0.197U ng/Kg 0.209U ng/Kg 0.459U ng/Kg 0.0388U ng/Kg	A	B
DX126	SL-031-SA6-SB-9.0-10.0	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF	0.333U ng/Kg 0.189U ng/Kg 0.190U ng/Kg 0.0811U ng/Kg 0.227U ng/Kg 0.0700U ng/Kg 0.321U ng/Kg 0.0586U ng/Kg	A	B
DX126	SL-042-SA6-SB-2.5-3.5	1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD	0.134U ng/Kg 0.0525U ng/Kg 0.0338U ng/Kg 0.0336U ng/Kg 0.451U ng/Kg	A	B
DX126	SL-044-SA6-SB-2.5-3.5	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8,9-HpCDF	0.122U ng/Kg 0.221U ng/Kg 0.160U ng/Kg 0.177U ng/Kg 0.0642U ng/Kg	A	B
DX126	SL-049-SA6-SB-2.5-3.5	1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD	0.0684U ng/Kg 0.0324U ng/Kg 0.153U ng/Kg 0.0463U ng/Kg 0.596U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX126	SL-011-SA5DN-SB-4.0-5.0	2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDD 1,2,3,4,6,7,8-HpCDF	0.0395U ng/Kg 0.0755U ng/Kg 0.0752U ng/Kg 0.429U ng/Kg 0.0885U ng/Kg	A	B
DX126	SL-012-SA5DN-SB-4.0-5.0	1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF	0.0749U ng/Kg 0.102U ng/Kg 0.108U ng/Kg 0.148U ng/Kg	A	B
DX126	SL-012-SA5DN-SB-9.0-10.0	1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF	0.0380U ng/Kg 0.0236U ng/Kg 0.0566U ng/Kg 0.110U ng/Kg 0.913U ng/Kg 0.0600U ng/Kg	A	B
DX126	SL-009-SA5DN-SB-4.0-5.0	2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD	0.0278U ng/Kg 0.0715U ng/Kg 0.0813U ng/Kg 0.0752U ng/Kg 0.555U ng/Kg	A	B
DX126	SL-009-SA5DN-SB-9.0-10.0	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF	0.277U ng/Kg 0.135U ng/Kg 0.142U ng/Kg 0.194U ng/Kg 0.129U ng/Kg 0.187U ng/Kg	A	B
DX126	DUP24-SA5DN-QC-080911	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF	0.140U ng/Kg 0.0763U ng/Kg 0.0357U ng/Kg 0.0279U ng/Kg 0.0589U ng/Kg 0.0440U ng/Kg 0.122U ng/Kg 0.699U ng/Kg 0.0441U ng/Kg	A	B
DX126	SL-083-SA5DN-SB-4.0-5.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF	0.111U ng/Kg 0.0869U ng/Kg 0.0504U ng/Kg 0.0369U ng/Kg 0.191U ng/Kg 0.0701U ng/Kg 0.190U ng/Kg	A	B

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Field Blank Data Qualification Summary - SDG DX126

No Sample Data Qualified in this SDG

LDC #: 26850C21 **VALIDATION COMPLETENESS WORKSHEET** Date: 12/27/11
SDG #: DX126 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: FO
2nd Reviewer: A

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/8 – 8/9/11
II.	HRGC/HRMS Instrument performance check	A	
III.	Initial calibration	A	%RSD ≤ 20/35
IV.	Routine calibration/ICV	A	CCV = QC limit
V.	Blanks	SW	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	OPR
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	A	QC limit
X.	Target compound identifications	A	
XI.	Compound quantitation and CRQLs	A	
XII.	System performance	A	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	SW	D = 15, 17
XV.	Field blanks	SW	EB = 11

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 + water

1 3	SL-083-SA5DN-SB-4.0-5.0	11 1	EB-SA6-SB-080911 W	21 1	Blank 224001	31	
2 2	SL-153-SA5DN-SB-4.0-5.0	12 2	SL-011-SA5DN-SB-4.0-5.0	22 2	Blank 231004	32	
3 2	SL-153-SA5DN-SB-7.0-8.0	13 2	SL-012-SA5DN-SB-4.0-5.0	23 3	Blank 238001	33	
4 2	SL-273-SA6-SB-4.0-5.0	14 2	SL-012-SA5DN-SB-9.0-10.0	24		34	
5 2	SL-273-SA6-SB-9.0-10.0	15 2	SL-009-SA5DN-SB-4.0-5.0 D	25		35	
6 2	SL-031-SA6-SB-4.0-5.0	16 2	SL-009-SA5DN-SB-9.0-10.0	26		36	
7 2	SL-031-SA6-SB-9.0-10.0	17 2	DUP24-SA5DN-QC-080911 D	27		37	
8 2	SL-042-SA6-SB-2.5-3.5	18 2	SL-009-SA5DN-SB-4.0-5.0MS	28		38	
9 2	SL-044-SA6-SB-2.5-3.5	19 2	SL-009-SA5DN-SB-4.0-5.0MSD	29		39	
10 2	SL-049-SA6-SB-2.5-3.5	20		30		40	

Notes:

LDC #: 26800C21

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer:

Method: Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS Instrument performance check				
Was PFK exact mass 380.9760 verified?	✓			
Were the retention time windows established for all homologues?	✓			
Was the chromatographic resolution between 2,3,7,8-TCDD and peaks representing any other unlabeled TCDD isomers ≤ 25% ?	✓			
Is the static resolving power at least 10,000 (10% valley definition)?	✓			
Was the mass resolution adequately check with PFK?	✓			
Was the presence of 1,2,8,9-TCDD and 1,3,4,6,8-PeCDF verified?	✓			
III. Initial calibration				
Was the initial calibration performed at 5 concentration levels?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20% for unlabeled compounds and ≤ 35% for labeled compounds ?	✓			
Did all calibration standards meet the Ion Abundance Ratio criteria?	✓			
Was the signal to noise ratio for each target compound ≥ 2.5 and for each recovery and internal standard ≥ 10?	✓			
IV. Continuing calibration				
Was a routine calibration performed at the beginning and end of each 12 hour period?	✓			
Were all the concentrations for the unlabeled compounds and labeled compounds within the QC limits (Method 1613B, Table 6)?	✓			
Did all routine calibration standards meet the Ion Abundance Ratio criteria?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank performed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet?	✓			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			

Validation Area	Yes	No	NA	Findings/Comments
VIII. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
IX. Internal standards				
Were internal standard recoveries within the 25-150% criteria?	✓			
Was the minimum S/N ratio of all internal standard peaks > 10?	✓			
X. Target compound identification				
For 2,3,7,8 substituted congeners with associated labeled standards, were the retention times of the two quantitation peaks within -1 to 3 sec. of the RT of the labeled standard?	✓			
For 2,3,7,8 substituted congeners without associated labeled standards, were the relative retention times of the two quantitation peaks within 0.005 time units of the RRT measured in the routine calibration?	✓			
For non-2,3,7,8 substituted congeners, were the retention times of the two quantitation peaks within RT established in the performance check solution?	✓			
Did compound spectra contain all characteristic ions listed in the table attached?	✓			
Was the Ion Abundance Ratio for the two quantitation ions within criteria?	✓			
Was the signal to noise ratio for each target compound and labeled standard ≥ 2.5?	✓			
Does the maximum intensity of each specified characteristic ion coincide within ± 2 seconds (includes labeled standards)?	✓			
For PCDF identification, was any signal (S/N ≥ 2.5, at ± seconds RT) detected in the corresponding PCDPE channel?		✓		
Was an acceptable lock mass recorded and monitored?	✓			
XI. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
XV. Field blanks				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

A. 2,3,7,8-TCDD	F. 1,2,3,4,6,7,8-HpCDD	K. 1,2,3,4,7,8-HxCDF	P. 1,2,3,4,7,8,9-HpCDF	U. Total HpCDD
B. 1,2,3,7,8-PeCDD	G. OCDD	L. 1,2,3,6,7,8-HxCDF	Q. OCDF	V. Total TCDF
C. 1,2,3,4,7,8-HxCDD	H. 2,3,7,8-TCDF	M. 2,3,4,6,7,8-HxCDF	R. Total TCDD	W. Total PeCDF
D. 1,2,3,6,7,8-HxCDD	I. 1,2,3,7,8-PeCDF	N. 1,2,3,7,8,9-HxCDF	S. Total PeCDD	X. Total HxCDF
E. 1,2,3,7,8,9-HxCDD	J. 2,3,4,7,8-PeCDF	O. 1,2,3,4,6,7,8-HpCDF	T. Total HxCDD	Y. Total HpCDF

Notes:

LDC #: 26850C21

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: [illegible]
2nd Reviewer: [illegible]

(B)

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all samples associated with a method blank?
Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed? *EMPC
Y N N/A Was the method blank contaminated?

Blank extraction date: 8/12/11 **Blank analysis date:** 8/16/11 **Associated samples:** ALL WATER
Conc. units: pg/L

Compound	Blank ID	Sample Identification								
	BLK224001	5X	11							
H	0.139	0.695								
A	0.457*	2.285	0.344*U							
I	0.280*	1.4	0.163*U							
J	0.450*	2.25	0.292*U							
B	0.437*	2.185	0.238*U							
K	0.405	2.025	0.216*U							
L	0.218*	1.09	0.223*U							
M	0.268	1.34	0.162*U							
C	0.200*	1								
D	0.373*	1.865	0.366*U							
E	0.458	2.29	0.452*U							
N	0.595*	2.975								
O	0.817*	4.085	0.650U							
F	3.99	19.95	4.38U							
P	0.551*	2.755	0.550*U							
G	8.97	44.85	7.99*U							
Q	1.57*	7.85	1.02U							

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC #: 26850C21

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: [illegible]
2nd Reviewer: [illegible]

(B7)

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all samples associated with a method blank?
Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed? *EMPC
Y N N/A Was the method blank contaminated?

Blank extraction date: 8/19/11 **Blank analysis date:** 8/22/11 **Associated samples:** 2-10, 12-17
Conc. units: ng/kg

Compound	Blank ID	Sample Identification								
	BLK231004	5X	2	3	4	5	6	7	8	9
B	0.0911*	0.4555					0.155*U	0.333U	0.134U	0.122*U
K	0.0624*	0.312		0.0418*U	0.0470*U		0.106*U	0.189*U		0.221*U
L	0.0816*	0.408			0.0470*U	0.0856*U	0.101*U	0.190*U	0.0525*U	0.160*U
M	0.0440*	0.22	0.0387*U			0.0332*U	0.0634U	0.0811*U	0.0338*U	0.177*U
D	0.0497*	0.2485		0.0802*U	0.0695*U	0.109*U	0.197*U	0.227U		
E	0.0511*	0.2555				0.226*U				
O	0.0461*	0.2305	0.0366*U	0.0684*U	0.0392U	0.131*U	0.209*U	0.0700*U	0.0336*U	
F	0.206	1.03	0.195U	0.344U	0.402U	0.478U	0.459*U	0.321*U	0.451*U	
P	0.0425*	0.2125				0.0495U	0.0388U	0.0586U		0.0642*U
G	0.280	1.4	0.939U	0.999U	0.616*U	1.09*U				

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC #: 26850C21

VALIDATION FINDINGS WORKSHEET
Blanks

(B)

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

Y N N/A Were all samples associated with a method blank?

Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed? *EMPC

Y N N/A Was the method blank contaminated?

Blank extraction date: 8/19/11 **Blank analysis date:** 8/22/11 **Associated samples:** 2-10, 12-17

Conc. units: ng/kg

Compound	Blank ID	Sample Identification								
	BLK231004	5X	10	12	13	14	15	16	17	
B	0.0911*	0.4555	0.0684*U		0.0749*U			0.277U	0.140*U	
K	0.0624*	0.312				0.0380*U		0.135U	0.0763*U	
L	0.0816*	0.408	0.0324*U			0.0236*U			0.0357*U	
M	0.0440*	0.22		0.0395*U			0.0278*U	0.142*U	0.0279*U	
D	0.0497*	0.2485	0.153*U	0.0755*U	0.102U		0.0715*U	0.194*U	0.0589*U	
E	0.0511*	0.2555		0.0752*U	0.108*U	0.0566*U	0.0813U	0.129U	0.0440U	
O	0.0461*	0.2305	0.0463U	0.0885*U	0.148U	0.110U	0.0752U	0.187*U	0.122U	
F	0.206	1.03	0.596*U	0.429U ~~0.0885*U~~		0.913U	0.555*U		0.699U	
P	0.0425*	0.2125				0.0600*U			0.0441*U	
G	0.280	1.4								

0.225*

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:

All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC #: 26850C21

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: [illegible]
2nd Reviewer: A

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

Y N N/A Were all samples associated with a method blank?

Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed? *EMPC

Y N N/A Was the method blank contaminated?

(B)

Blank extraction date: 8/19/11 **Blank analysis date:** 8/22/11 **Associated samples:** 1

Conc. units: ng/kg

Compound	Blank ID	Sample Identification								
	BLK238001	5X	1							
I	0.0365*	0.1825	0.111*U							
J	0.0544*	0.272	0.0869*U							
B	0.0682*	0.341								
K	0.0519*	0.2595	0.0504*U							
L	0.0537*	0.2685								
M	0.0234*	0.117	0.0369*U							
D	0.0513*	0.2565	0.191*U							
E	0.0428*	0.214								
N	0.0356*	0.178	0.0701*U							
O	0.0494*	0.247	0.190U							
F	0.236*	1.18								
G	0.426*	2.13								

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC #: 26850C21

VALIDATION FINDINGS WORKSHEET
Field Blank

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

Y N N/A Were field blank identified in this SDG?

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

Blank unit: pg/L **Associated sample unit:** ng/Kg **Associated samples:** 8-10, 12-17 >5x

(F)

Sampling date : 8/9/11

Compound	Blank ID	Sample Identification								
	11	5X								
~~H~~		~~0~~								
A	0.344*	1.72								
I	0.163*	0.815								
J	0.292*	1.46								
B	0.238*	1.19								
K	0.216*	1.08								
L	0.223*	1.115								
M	0.162*	0.81								
~~G~~		~~0~~								
D	0.366*	1.83								
E	0.452*	2.26								
~~N~~		~~0~~								
O	0.650	3.25								
F	4.38	21.9								
P	0.550*	2.75								
G	7.99*	39.95								
~~O~~	1.02	5.1								

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC#: 26850C21

VALIDATION FINDINGS WORKSHEET
Field Duplicates

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

METHOD: ~~GC/MS Volatiles (EPA SW-846 Method 8260B).~~ 1613B

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

* enpc (fd)

Compound	Concentration (ng/kg)		≤50 RPD	
	15	17		
I	0.125*	0.0543*	79	J/A dit
J	0.100	0.121*	19	
B	~~0.0639U~~ 5.51U	0.140*	200	J/W/Δ
K	~~0.0284U~~ 5.51U	0.0763*	200	↓
L	~~0.0234U~~ 5.51U	0.0357*	200	
M	0.0278*	0.0279*	0	
C	~~0.0410U~~ 5.51U	0.0520*	200	J/W/Δ
D	0.0715*	0.0589*	19	
E	0.0813	0.0440	60	J/A dit
N	0.0413	0.0396*	4	
O	0.0752	0.122	47	
F	0.555*	0.699	23	
P	~~0.0374U~~ 5.51U	0.0441*	200	J/W/Δ
G	4.04	4.76	16	
Q	0.140*	0.273*	64	J/A dit

V:\FIELD DUPLICATES\templates\26850C21.wpd

LDC #: 26852C2/

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT
2nd Reviewer: E

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$ — A_x = Area of compound, A_{is} = Area of associated internal standard
average RRF = sum of the RRFs/number of standards — C_x = Concentration of compound, C_{is} = Concentration of internal standard
%RSD = 100 * (S/X) — S = Standard deviation of the RRFs, X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported RRF (CS3 std)	Recalculated RRF (CS3 std)	Reported %RSD	Recalculated %RSD
1	ICAL	6/3/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.017	1.017	1.033	1.033	4.59	4.59
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.186	1.186	1.186	1.186	5.56	5.56
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.995	0.995	1.001	1.001	3.43	3.43
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.077	1.077	1.101	1.101	4.02	4.02
			OCDF (^{13}C-OCDF)	0.945	0.945	0.974	0.974	3.54	3.54
2	ICAL	6/24/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.022	1.022	1.028	1.028	7.77	7.77
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.133	1.133	1.142	1.142	3.52	3.52
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.971	0.971	1.018	1.018	4.32	4.32
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.053	1.053	1.087	1.087	4.49	4.49
			OCDF (^{13}C-OCDF)	0.950	0.950	1.001	1.001	5.01	5.01
3			2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)						
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)						
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)						
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)						
			OCDF (^{13}C-OCDF)						

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

LDC #: 26850C2/

VALIDATION FINDINGS WORKSHEET
Routine Calibration Results Verification

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

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	conc. ~~Average RRF~~ (initial)	Reported conc. ~~RRF~~ (CC)	Recalculated conc. RRF (CC)	Reported %R	Recalculated %R
1	CCV 10:16	8/16/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	9.740	9.740	97	97
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	9.180	9.180	92	92
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	50.360	50.360	101	101
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	50.180	50.180	100	100
			OCDF (^{13}C-OCDF)	100.00	107.420	107.420	107	107
2	CCV 13:04	8/22/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)		9.970	9.970	100	100
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)		10.640	10.640	106	106
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)		52.00	52.00	104	104
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)		52.430	52.430	105	105
			OCDF (^{13}C-OCDF)		104.880	104.880	105	105
3	CCV 0133	8/23/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)		10.330	10.330	103	103
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)		10.720	10.720	107	107
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)		51.920	51.920	104	104
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)		51.370	51.370	103	103
			OCDF (^{13}C-OCDF)		106.120	106.120	106	106

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

LDC #: 26850C21

VALIDATION FINDINGS WORKSHEET
Routine Calibration Results Verification

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

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method ~~8290~~) 1613B

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

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	conc. ~~Average RRF~~ (initial)	Reported conc ~~RRF~~ (CC)	Recalculated conc ~~RRF~~ (CC)	Reported %D	Recalculated %D
1	CCV 0016	8/30/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	10.3	10.3	103	103
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	10.44	10.44	104	104
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	51.120	51.120	102	102
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	50.940	50.940	102	102
			OCDF (^{13}C-OCDD)	100.00	100.00	100.0	100	100
2			2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)					
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)					
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)					
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)					
			OCDF (^{13}C-OCDD)					
3			2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)					
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)					
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)					
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)					
			OCDF (^{13}C-OCDD)					

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

LDC #: 26850C21

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

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

% Recovery = 100 * (SSR - SR)/SA Where: SSR = Spiked sample result, SR = Sample result; SA = Spike added

RPD = | MSR - MSDR | * 2/(MSR + MSDR) MSR = Matrix spike percent recovery MSDR = Matrix spike duplicate percent recovery

MS/MSD samples: 18 & 19

Compound	Spike Added (ng/kg)		Sample Concentration (ng/kg)	Spiked Sample Concentration (ng/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		Reported RPD	Recalculated RPD
	MS	MSD	-----	MS	MSD	Reported	Recalc	Reported	Recalc	----	----
2,3,7,8-TCDD	21.8	21.8	ND	22.9	21.9	105	105	100	100	5	5
1,2,3,7,8-PeCDD	109	109	ND	115	113	105	105	104	104	1	1
1,2,3,4,7,8-HxCDD	109	109	ND	114	115	105	↓	105	105	0	0
1,2,3,4,7,8,9-HpCDF	109	109	ND	114	110	105	↓	101	101	4	4
OCDF	218	218	0.140	227	223	104	104	102	102	2	2

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

LDC #: 26830C21

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

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

METHOD: GC/MS Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

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

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration
SA = Spike added

RPD = | LCS - LCSD | * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: OPR 231004

Compound	Spike Added (ng/kg)		Spiked Sample Concentration (ng/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
2,3,7,8-TCDD	20.0	NA	21.1	NA	105	105				
1,2,3,7,8-PeCDD	100.0		108		108	108				
1,2,3,4,7,8-HxCDD	100.0		108		108	108				
1,2,3,4,7,8,9-HpCDF	100.0		105		105	105				
OCDF	200.0		210		105	105	NA			

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

LDC #: 26850 C2/

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: F7
2nd reviewer: A

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

RRF = Relative Response Factor (average) from the initial calibration

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

Example:

Sample I.D. #1 , OCDD:

Conc. = $\frac{(123440 + 111189)(4000)(\quad)}{(993551)(1.041)(10.2)(0.878)}$ + 88883

= 53.47 ng/kg

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

SAMPLE DELIVERY GROUP

DX127

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
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372859	N	METHOD	1613B	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372860	N	METHOD	1613B	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372853	N	METHOD	1613B	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372854	N	METHOD	1613B	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372849	N	METHOD	1613B	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372857	N	METHOD	1613B	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372858	N	METHOD	1613B	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372850	N	METHOD	1613B	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372851	N	METHOD	1613B	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372855	N	METHOD	1613B	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372856	N	METHOD	1613B	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372852	N	METHOD	1613B	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374029	N	METHOD	1613B	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374030	N	METHOD	1613B	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374032	N	METHOD	1613B	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374033	MS	METHOD	1613B	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374034	MSD	METHOD	1613B	III
11-Aug-2011	DUP24-SA6-QC-081111	6374037	FD	METHOD	1613B	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374031	N	METHOD	1613B	III
11-Aug-2011	EB-SA5DN-SB-081111	6374038	EB	METHOD	1613B	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374036	N	METHOD	1613B	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374035	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX127 **Laboratory:** LL

EDD Filename: DX127_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** AQ

Sample ID: EB-SA5DN-SB-081111 *Collected:* 8/11/2011 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.76	JB	0.144	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.446	JBQ	0.0483	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.161	JB	0.0600	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.217	JBQ	0.0554	MDL	10.6	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.274	JBQ	0.0995	MDL	10.6	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.164	JB	0.0551	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.193	JBQ	0.0992	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.200	JBQ	0.0589	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.136	JB	0.110	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.0761	JBQ	0.0581	MDL	10.6	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.126	JBQ	0.0538	MDL	10.6	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.273	JB	0.0507	MDL	10.6	PQL	pg/L	U	B
2,3,7,8-TCDD	0.152	JBQ	0.118	MDL	2.11	PQL	pg/L	U	B
OCDD	4.40	JB	0.106	MDL	21.1	PQL	pg/L	U	B
OCDF	0.433	JB	0.143	MDL	21.1	PQL	pg/L	U	B

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: DUP24-SA6-QC-081111 *Collected:* 8/11/2011 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
1,2,3,4,6,7,8-HPCDD	0.232	JB	0.0769	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0533	JBQ	0.0281	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0533	U	0.0533	MDL	5.18	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.0326	U	0.0326	MDL	5.18	PQL	ng/Kg	UJ	FD
1,2,3,6,7,8-HXCDD	0.0529	U	0.0529	MDL	5.18	PQL	ng/Kg	UJ	FD
1,2,3,6,7,8-HXCDF	0.0558	JB	0.0288	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0534	JBQ	0.0513	MDL	5.18	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0562	JBQ	0.0296	MDL	5.18	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0893	JQ	0.0781	MDL	5.18	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.0374	U	0.0374	MDL	5.18	PQL	ng/Kg	UJ	FD
2,3,4,6,7,8-HXCDF	0.0298	U	0.0298	MDL	5.18	PQL	ng/Kg	UJ	FD
2,3,4,7,8-PECDF	0.0707	JBQ	0.0386	MDL	5.18	PQL	ng/Kg	UJ	B, 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: DX127 **Laboratory:** LL

EDD Filename: DX127_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: DUP24-SA6-QC-081111 *Collected:* 8/11/2011 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
OCDD	0.660	JB	0.0502	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.226	JBQ	0.0869	MDL	10.4	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-006-SA5DN-SB-4.0-5.0 *Collected:* 8/11/2011 8:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.55	JB	0.0904	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.319	JB	0.0264	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0768	JBQ	0.0486	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0663	JB	0.0400	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.105	J	0.0477	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0327	JBQ	0.0326	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.135	JB	0.0499	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0986	JBQ	0.0453	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0828	JQ	0.0740	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0468	JQ	0.0374	MDL	5.66	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0584	JQ	0.0364	MDL	5.66	PQL	ng/Kg	J	Z
OCDF	0.827	JBQ	0.112	MDL	11.3	PQL	ng/Kg	J	Z

Sample ID: SL-006-SA5DN-SB-9.0-10.0 *Collected:* 8/11/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.361	JB	0.0641	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0869	JBQ	0.0273	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0536	JB	0.0442	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0477	JB	0.0449	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.106	JB	0.0332	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0590	JQ	0.0452	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0769	JB	0.0296	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0945	JBQ	0.0454	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0605	JBQ	0.0370	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.116	JQ	0.0753	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0939	JQ	0.0329	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0503	J	0.0314	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.112	JBQ	0.0317	MDL	5.57	PQL	ng/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: DX127 Laboratory: LL

EDD Filename: DX127_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-006-SA5DN-SB-9.0-10.0 *Collected:* 8/11/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	2.44	JB	0.0552	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.263	JB	0.0831	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-007-SA5DN-SB-4.0-5.0 *Collected:* 8/10/2011 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.367	JB	0.0950	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0691	JB	0.0298	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0606	JBQ	0.0557	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0813	JBQ	0.0449	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.219	JQ	0.0641	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0976	JBQ	0.0398	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.375	JBQ	0.0591	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0843	JQ	0.0497	MDL	5.82	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0768	JQ	0.0411	MDL	5.82	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0923	JBQ	0.0501	MDL	5.82	PQL	ng/Kg	U	B
OCDD	1.40	JBQ	0.0568	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.210	JBQ	0.112	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-033-SA6-SB-2.5-3.5 *Collected:* 8/11/2011 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.60	JB	0.107	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.947	JB	0.0318	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0637	JB	0.0589	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0799	JB	0.0480	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.196	JQ	0.0750	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.114	JB	0.0418	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.237	JBQ	0.0731	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.135	JBQ	0.0474	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0952	J	0.0833	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.134	JQ	0.0451	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.248	JBQ	0.0470	MDL	5.18	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.112	JQ	0.102	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	2.48	JB	0.0999	MDL	10.4	PQL	ng/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: DX127 **Laboratory:** LL

EDD Filename: DX127_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-071-SA5DN-SB-4.0-5.0 *Collected:* 8/10/2011 11:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.32	JBQ	0.121	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0633	JBQ	0.0627	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0419	JB	0.0410	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0705	J	0.0656	MDL	5.71	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0720	JBQ	0.0479	MDL	5.71	PQL	ng/Kg	U	B
OCDF	0.189	JB	0.143	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-071-SA5DN-SB-9.0-10.0 *Collected:* 8/10/2011 11:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.729	JB	0.0812	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0563	JBQ	0.0527	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0310	JB	0.0308	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0528	JQ	0.0399	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0557	JQ	0.0327	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0430	JB	0.0395	MDL	5.53	PQL	ng/Kg	U	B
OCDD	2.98	JB	0.0491	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.163	JB	0.104	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-072-SA5DN-SB-4.0-5.0 *Collected:* 8/10/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.30	JB	0.0612	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.287	JBQ	0.128	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.950	J	0.120	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0878	JBQ	0.0577	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.477	JBQ	0.110	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.120	JB	0.0794	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0947	JQ	0.0571	MDL	5.93	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.220	JQ	0.0628	MDL	5.93	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0802	JBQ	0.0589	MDL	5.93	PQL	ng/Kg	U	B
OCDF	5.56	JB	0.153	MDL	11.9	PQL	ng/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: DX127 **Laboratory:** LL

EDD Filename: DX127_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-151-SA6-SB-4.0-5.0 *Collected:* 8/10/2011 8:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.281	JB	0.0739	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0582	JBQ	0.0186	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0441	JBQ	0.0351	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0504	JQ	0.0477	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0497	JBQ	0.0303	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.126	JBQ	0.0479	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0458	JQ	0.0357	MDL	5.20	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0398	J	0.0320	MDL	5.20	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0481	JBQ	0.0345	MDL	5.20	PQL	ng/Kg	U	B
OCDD	1.13	JB	0.0440	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.181	JB	0.103	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-151-SA6-SB-9.0-10.0 *Collected:* 8/10/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.313	JBQ	0.0778	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0921	JB	0.0232	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0649	JB	0.0509	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0891	JBQ	0.0517	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.114	JBQ	0.0336	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0887	JQ	0.0513	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0958	JB	0.0287	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.102	JB	0.0517	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.127	JBQ	0.0413	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.274	JQ	0.0780	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.213	JQ	0.0371	MDL	5.59	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0772	JQ	0.0317	MDL	5.59	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.218	JB	0.0390	MDL	5.59	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.128	J	0.0854	MDL	1.12	PQL	ng/Kg	J	Z
OCDD	0.891	JBQ	0.0406	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.181	JB	0.104	MDL	11.2	PQL	ng/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: DX127 **Laboratory:** LL

EDD Filename: DX127_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-155-SA6-SB-4.0-5.0 *Collected:* 8/11/2011 10:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.232	JB	0.0702	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0664	JBQ	0.0227	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0694	JB	0.0469	MDL	5.28	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.0905	JBQ	0.0324	MDL	5.28	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.0909	J	0.0480	MDL	5.28	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.0916	JB	0.0302	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.150	JB	0.0485	MDL	5.28	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.110	JBQ	0.0367	MDL	5.28	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.185	JQ	0.0706	MDL	5.28	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.164	JQ	0.0357	MDL	5.28	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.0675	J	0.0319	MDL	5.28	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	0.139	JBQ	0.0352	MDL	5.28	PQL	ng/Kg	UJ	B, FD
OCDD	0.725	JB	0.0449	MDL	10.6	PQL	ng/Kg	U	B
OCDF	0.112	JBQ	0.0857	MDL	10.6	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-174-SA6-SB-2.0-3.0 *Collected:* 8/11/2011 2:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.395	JB	0.0706	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.102	JBQ	0.0260	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0881	JBQ	0.0409	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.128	JBQ	0.0373	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.154	JQ	0.0547	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.117	JBQ	0.0329	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.144	JB	0.0520	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.119	J	0.0846	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.103	J	0.0463	MDL	5.21	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.113	J	0.0332	MDL	5.21	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.163	JB	0.0447	MDL	5.21	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.101	JQ	0.0967	MDL	1.04	PQL	ng/Kg	J	Z
OCDD	1.06	JB	0.0507	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.147	JBQ	0.0860	MDL	10.4	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX127 Laboratory: LL

EDD Filename: DX127_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-182-SA6-SB-4.0-5.0 *Collected:* 8/10/2011 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
1,2,3,4,6,7,8-HPCDD	0.362	JB	0.0707	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0898	JBQ	0.0202	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0699	JBQ	0.0481	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.201	JBQ	0.0549	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.202	JBQ	0.0350	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.131	J	0.0527	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.151	JB	0.0278	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.170	JBQ	0.0508	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.163	JB	0.0398	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.146	J	0.0746	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.325	JQ	0.0355	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.126	JQ	0.0314	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.244	JBQ	0.0382	MDL	5.25	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.128	JQ	0.0834	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	3.62	JB	0.0402	MDL	10.5	PQL	ng/Kg	J	Z
OCDF	0.232	JB	0.104	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-182-SA6-SB-9.0-10.0 *Collected:* 8/10/2011 12:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.205	JB	0.0814	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0749	JB	0.0446	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.108	JBQ	0.0606	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.154	JB	0.111	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0984	JQ	0.0737	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.197	JB	0.0914	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.121	JB	0.0661	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.183	JBQ	0.0595	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.287	JQ	0.0894	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.159	JQ	0.0490	MDL	5.60	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0407	J	0.0401	MDL	5.60	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.242	JBQ	0.0506	MDL	5.60	PQL	ng/Kg	U	B
OCDD	0.713	JBQ	0.0653	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.214	JBQ	0.163	MDL	11.2	PQL	ng/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: DX127 **Laboratory:** LL

EDD Filename: DX127_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-183-SA6-SB-4.0-5.0 *Collected:* 8/10/2011 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
1,2,3,4,6,7,8-HPCDD	0.505	JB	0.0667	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.143	JB	0.0254	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0969	JBQ	0.0487	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.131	JB	0.0295	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.136	JQ	0.0497	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0731	JBQ	0.0268	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.123	JB	0.0504	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0788	JBQ	0.0334	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.203	JQ	0.0744	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.233	JQ	0.0382	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0800	JQ	0.0285	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.142	JB	0.0375	MDL	5.48	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.136	J	0.0861	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	3.53	JB	0.0552	MDL	11.0	PQL	ng/Kg	J	Z
OCDF	0.172	JB	0.0978	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-183-SA6-SB-9.0-10.0 *Collected:* 8/10/2011 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
1,2,3,4,6,7,8-HPCDD	0.319	JBQ	0.0646	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0403	JBQ	0.0185	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0560	JBQ	0.0466	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0561	JBQ	0.0447	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0576	JBQ	0.0396	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0399	J	0.0309	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0471	JBQ	0.0391	MDL	5.53	PQL	ng/Kg	U	B
OCDD	0.572	JB	0.0390	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.307	JB	0.119	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-185-SA6-SB-4.0-5.0 *Collected:* 8/10/2011 7:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.512	JBQ	0.0700	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0569	JBQ	0.0200	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0581	JBQ	0.0374	MDL	5.52	PQL	ng/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: DX127 **Laboratory: LL**

EDD Filename: DX127_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-185-SA6-SB-4.0-5.0 *Collected:* 8/10/2011 7:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.475	JB	0.0468	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0631	JQ	0.0604	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0752	JQ	0.0292	MDL	5.52	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0495	JBQ	0.0307	MDL	5.52	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0786	J	0.0646	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	3.90	JB	0.0459	MDL	11.0	PQL	ng/Kg	J	Z
OCDF	0.133	JBQ	0.0849	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-185-SA6-SB-9.0-10.0 *Collected:* 8/10/2011 7:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.159	JB	0.0658	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0381	JBQ	0.0193	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0597	JB	0.0437	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0760	JQ	0.0503	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0768	JBQ	0.0491	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.120	JBQ	0.0338	MDL	5.57	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0961	J	0.0935	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	1.04	JB	0.0438	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.214	JBQ	0.109	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-207-SA5DN-SB-4.0-5.0 *Collected:* 8/11/2011 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
1,2,3,4,6,7,8-HPCDD	0.287	JB	0.0704	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0816	JB	0.0224	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0557	JB	0.0392	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0579	JB	0.0518	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0791	JB	0.0324	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.106	J	0.0531	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0982	JBQ	0.0290	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0769	JB	0.0555	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0923	JBQ	0.0372	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.180	J	0.0676	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.218	JQ	0.0426	MDL	5.66	PQL	ng/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: DX127 **Laboratory: LL**

EDD Filename: DX127_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **GENCHEM**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: SL-207-SA5DN-SB-4.0-5.0 ***Collected:*** 8/11/2011 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*
2,3,4,6,7,8-HXCDF	0.0740	JQ	0.0317	MDL	5.66	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.163	JB	0.0405	MDL	5.66	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.105	J	0.0756	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	1.21	JB	0.0434	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.162	JB	0.0808	MDL	11.3	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX127 **Laboratory: LL**

EDD Filename: DX127_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DX127 **Laboratory: LL**

EDD Filename: DX127_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

Data Qualifier Summary

Lab Reporting Batch ID: DX127 **Laboratory: LL**

EDD Filename: DX127_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX127

Method Blank Outlier Report

Lab Reporting Batch ID: DX127 **Laboratory: LL**

EDD Filename: DX127_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2290B371851	8/18/2011 6:51:00 PM	1,2,3,4,6,7,8-HPCDD	3.13 pg/L	EB-SA5DN-SB-081111
		1,2,3,4,6,7,8-HPCDF	1.11 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.553 pg/L	
		1,2,3,4,7,8-HxCDD	0.326 pg/L	
		1,2,3,4,7,8-HXCDF	0.414 pg/L	
		1,2,3,6,7,8-HXCDD	0.546 pg/L	
		1,2,3,6,7,8-HXCDF	0.547 pg/L	
		1,2,3,7,8,9-HXCDD	0.754 pg/L	
		1,2,3,7,8,9-HXCDF	0.516 pg/L	
		1,2,3,7,8-PECDD	0.400 pg/L	
		1,2,3,7,8-PECDF	0.348 pg/L	
		2,3,4,6,7,8-HXCDF	0.411 pg/L	
		2,3,4,7,8-PECDF	0.680 pg/L	
		2,3,7,8-TCDD	0.247 pg/L	
		OCDD	5.33 pg/L	
		OCDF	0.962 pg/L	

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-SA5DN-SB-081111(RES)	1,2,3,4,6,7,8-HPCDD	2.76 pg/L	2.76U pg/L
EB-SA5DN-SB-081111(RES)	1,2,3,4,6,7,8-HPCDF	0.446 pg/L	0.446U pg/L
EB-SA5DN-SB-081111(RES)	1,2,3,4,7,8,9-HPCDF	0.161 pg/L	0.161U pg/L
EB-SA5DN-SB-081111(RES)	1,2,3,4,7,8-HXCDF	0.217 pg/L	0.217U pg/L
EB-SA5DN-SB-081111(RES)	1,2,3,6,7,8-HXCDD	0.274 pg/L	0.274U pg/L
EB-SA5DN-SB-081111(RES)	1,2,3,6,7,8-HXCDF	0.164 pg/L	0.164U pg/L
EB-SA5DN-SB-081111(RES)	1,2,3,7,8,9-HXCDD	0.193 pg/L	0.193U pg/L
EB-SA5DN-SB-081111(RES)	1,2,3,7,8,9-HXCDF	0.200 pg/L	0.200U pg/L
EB-SA5DN-SB-081111(RES)	1,2,3,7,8-PECDD	0.136 pg/L	0.136U pg/L
EB-SA5DN-SB-081111(RES)	1,2,3,7,8-PECDF	0.0761 pg/L	0.0761U pg/L
EB-SA5DN-SB-081111(RES)	2,3,4,6,7,8-HXCDF	0.126 pg/L	0.126U pg/L
EB-SA5DN-SB-081111(RES)	2,3,4,7,8-PECDF	0.273 pg/L	0.273U pg/L
EB-SA5DN-SB-081111(RES)	2,3,7,8-TCDD	0.152 pg/L	0.152U pg/L
EB-SA5DN-SB-081111(RES)	OCDD	4.40 pg/L	4.40U pg/L
EB-SA5DN-SB-081111(RES)	OCDF	0.433 pg/L	0.433U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX127 **Laboratory: LL**

EDD Filename: DX127_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2340B371616	8/24/2011 4:16:00 PM	1,2,3,4,6,7,8-HPCDD	0.259 ng/Kg	DUP24-SA6-QC-081111
		1,2,3,4,6,7,8-HPCDF	0.0585 ng/Kg	SL-006-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0765 ng/Kg	SL-006-SA5DN-SB-9.0-10.0
		1,2,3,4,7,8-HxCDD	0.0560 ng/Kg	SL-007-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0487 ng/Kg	SL-033-SA6-SB-2.5-3.5
		1,2,3,6,7,8-HXCDF	0.0380 ng/Kg	SL-071-SA5DN-SB-4.0-5.0
		1,2,3,7,8,9-HXCDD	0.0465 ng/Kg	SL-071-SA5DN-SB-9.0-10.0
		1,2,3,7,8,9-HXCDF	0.0390 ng/Kg	SL-072-SA5DN-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0865 ng/Kg	SL-151-SA6-SB-4.0-5.0
		OCDD	0.515 ng/Kg	SL-151-SA6-SB-9.0-10.0
		OCDF	0.109 ng/Kg	SL-155-SA6-SB-4.0-5.0
				SL-174-SA6-SB-2.0-3.0
				SL-182-SA6-SB-4.0-5.0
				SL-182-SA6-SB-9.0-10.0
				SL-183-SA6-SB-4.0-5.0
				SL-183-SA6-SB-9.0-10.0
				SL-185-SA6-SB-4.0-5.0
				SL-185-SA6-SB-9.0-10.0
				SL-207-SA5DN-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
DUP24-SA6-QC-081111(RES)	1,2,3,4,6,7,8-HPCDD	0.232 ng/Kg	0.232U ng/Kg
DUP24-SA6-QC-081111(RES)	1,2,3,4,6,7,8-HPCDF	0.0533 ng/Kg	0.0533U ng/Kg
DUP24-SA6-QC-081111(RES)	1,2,3,6,7,8-HXCDF	0.0558 ng/Kg	0.0558U ng/Kg
DUP24-SA6-QC-081111(RES)	1,2,3,7,8,9-HXCDD	0.0534 ng/Kg	0.0534U ng/Kg
DUP24-SA6-QC-081111(RES)	1,2,3,7,8,9-HXCDF	0.0562 ng/Kg	0.0562U ng/Kg
DUP24-SA6-QC-081111(RES)	2,3,4,7,8-PECDF	0.0707 ng/Kg	0.0707U ng/Kg
DUP24-SA6-QC-081111(RES)	OCDD	0.660 ng/Kg	0.660U ng/Kg
DUP24-SA6-QC-081111(RES)	OCDF	0.226 ng/Kg	0.226U ng/Kg
SL-006-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0768 ng/Kg	0.0768U ng/Kg
SL-006-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0663 ng/Kg	0.0663U ng/Kg
SL-006-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0327 ng/Kg	0.0327U ng/Kg
SL-006-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.135 ng/Kg	0.135U ng/Kg
SL-006-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0986 ng/Kg	0.0986U ng/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.361 ng/Kg	0.361U ng/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0869 ng/Kg	0.0869U ng/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0536 ng/Kg	0.0536U ng/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0477 ng/Kg	0.0477U ng/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.106 ng/Kg	0.106U ng/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0769 ng/Kg	0.0769U ng/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0945 ng/Kg	0.0945U ng/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0605 ng/Kg	0.0605U ng/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.112 ng/Kg	0.112U ng/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	OCDD	2.44 ng/Kg	2.44U ng/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	OCDF	0.263 ng/Kg	0.263U ng/Kg
SL-007-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.367 ng/Kg	0.367U ng/Kg
SL-007-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0691 ng/Kg	0.0691U ng/Kg
SL-007-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0606 ng/Kg	0.0606U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX127 **Laboratory: LL**

EDD Filename: DX127_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0813 ng/Kg	0.0813U ng/Kg
SL-007-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0976 ng/Kg	0.0976U ng/Kg
SL-007-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0923 ng/Kg	0.0923U ng/Kg
SL-007-SA5DN-SB-4.0-5.0(RES)	OCDD	1.40 ng/Kg	1.40U ng/Kg
SL-007-SA5DN-SB-4.0-5.0(RES)	OCDF	0.210 ng/Kg	0.210U ng/Kg
SL-033-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0637 ng/Kg	0.0637U ng/Kg
SL-033-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.0799 ng/Kg	0.0799U ng/Kg
SL-033-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.114 ng/Kg	0.114U ng/Kg
SL-033-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-033-SA6-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.248 ng/Kg	0.248U ng/Kg
SL-071-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0633 ng/Kg	0.0633U ng/Kg
SL-071-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0419 ng/Kg	0.0419U ng/Kg
SL-071-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0720 ng/Kg	0.0720U ng/Kg
SL-071-SA5DN-SB-4.0-5.0(RES)	OCDF	0.189 ng/Kg	0.189U ng/Kg
SL-071-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.729 ng/Kg	0.729U ng/Kg
SL-071-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0563 ng/Kg	0.0563U ng/Kg
SL-071-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0310 ng/Kg	0.0310U ng/Kg
SL-071-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0430 ng/Kg	0.0430U ng/Kg
SL-071-SA5DN-SB-9.0-10.0(RES)	OCDF	0.163 ng/Kg	0.163U ng/Kg
SL-072-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.287 ng/Kg	0.287U ng/Kg
SL-072-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0878 ng/Kg	0.0878U ng/Kg
SL-072-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-072-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0802 ng/Kg	0.0802U ng/Kg
SL-151-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.281 ng/Kg	0.281U ng/Kg
SL-151-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0582 ng/Kg	0.0582U ng/Kg
SL-151-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0441 ng/Kg	0.0441U ng/Kg
SL-151-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0497 ng/Kg	0.0497U ng/Kg
SL-151-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.126 ng/Kg	0.126U ng/Kg
SL-151-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0481 ng/Kg	0.0481U ng/Kg
SL-151-SA6-SB-4.0-5.0(RES)	OCDD	1.13 ng/Kg	1.13U ng/Kg
SL-151-SA6-SB-4.0-5.0(RES)	OCDF	0.181 ng/Kg	0.181U ng/Kg
SL-151-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.313 ng/Kg	0.313U ng/Kg
SL-151-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0921 ng/Kg	0.0921U ng/Kg
SL-151-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0649 ng/Kg	0.0649U ng/Kg
SL-151-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0891 ng/Kg	0.0891U ng/Kg
SL-151-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.114 ng/Kg	0.114U ng/Kg
SL-151-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0958 ng/Kg	0.0958U ng/Kg
SL-151-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.102 ng/Kg	0.102U ng/Kg
SL-151-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.127 ng/Kg	0.127U ng/Kg
SL-151-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.218 ng/Kg	0.218U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX127 **Laboratory: LL**

EDD Filename: DX127_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-151-SA6-SB-9.0-10.0(RES)	OCDD	0.891 ng/Kg	0.891U ng/Kg
SL-151-SA6-SB-9.0-10.0(RES)	OCDF	0.181 ng/Kg	0.181U ng/Kg
SL-155-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.232 ng/Kg	0.232U ng/Kg
SL-155-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0664 ng/Kg	0.0664U ng/Kg
SL-155-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0694 ng/Kg	0.0694U ng/Kg
SL-155-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0905 ng/Kg	0.0905U ng/Kg
SL-155-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0916 ng/Kg	0.0916U ng/Kg
SL-155-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.150 ng/Kg	0.150U ng/Kg
SL-155-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-155-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.139 ng/Kg	0.139U ng/Kg
SL-155-SA6-SB-4.0-5.0(RES)	OCDD	0.725 ng/Kg	0.725U ng/Kg
SL-155-SA6-SB-4.0-5.0(RES)	OCDF	0.112 ng/Kg	0.112U ng/Kg
SL-174-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.395 ng/Kg	0.395U ng/Kg
SL-174-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.102 ng/Kg	0.102U ng/Kg
SL-174-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0881 ng/Kg	0.0881U ng/Kg
SL-174-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.128 ng/Kg	0.128U ng/Kg
SL-174-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.117 ng/Kg	0.117U ng/Kg
SL-174-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.144 ng/Kg	0.144U ng/Kg
SL-174-SA6-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.163 ng/Kg	0.163U ng/Kg
SL-174-SA6-SB-2.0-3.0(RES)	OCDD	1.06 ng/Kg	1.06U ng/Kg
SL-174-SA6-SB-2.0-3.0(RES)	OCDF	0.147 ng/Kg	0.147U ng/Kg
SL-182-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.362 ng/Kg	0.362U ng/Kg
SL-182-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0898 ng/Kg	0.0898U ng/Kg
SL-182-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0699 ng/Kg	0.0699U ng/Kg
SL-182-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.201 ng/Kg	0.201U ng/Kg
SL-182-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.202 ng/Kg	0.202U ng/Kg
SL-182-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.151 ng/Kg	0.151U ng/Kg
SL-182-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.170 ng/Kg	0.170U ng/Kg
SL-182-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.163 ng/Kg	0.163U ng/Kg
SL-182-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.244 ng/Kg	0.244U ng/Kg
SL-182-SA6-SB-4.0-5.0(RES)	OCDF	0.232 ng/Kg	0.232U ng/Kg
SL-182-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.205 ng/Kg	0.205U ng/Kg
SL-182-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0749 ng/Kg	0.0749U ng/Kg
SL-182-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.108 ng/Kg	0.108U ng/Kg
SL-182-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.154 ng/Kg	0.154U ng/Kg
SL-182-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.121 ng/Kg	0.121U ng/Kg
SL-182-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.183 ng/Kg	0.183U ng/Kg
SL-182-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.242 ng/Kg	0.242U ng/Kg
SL-182-SA6-SB-9.0-10.0(RES)	OCDD	0.713 ng/Kg	0.713U ng/Kg
SL-182-SA6-SB-9.0-10.0(RES)	OCDF	0.214 ng/Kg	0.214U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX127 **Laboratory: LL**

EDD Filename: DX127_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-183-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.505 ng/Kg	0.505U ng/Kg
SL-183-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.143 ng/Kg	0.143U ng/Kg
SL-183-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0969 ng/Kg	0.0969U ng/Kg
SL-183-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.131 ng/Kg	0.131U ng/Kg
SL-183-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0731 ng/Kg	0.0731U ng/Kg
SL-183-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.123 ng/Kg	0.123U ng/Kg
SL-183-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0788 ng/Kg	0.0788U ng/Kg
SL-183-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.142 ng/Kg	0.142U ng/Kg
SL-183-SA6-SB-4.0-5.0(RES)	OCDF	0.172 ng/Kg	0.172U ng/Kg
SL-183-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.319 ng/Kg	0.319U ng/Kg
SL-183-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0403 ng/Kg	0.0403U ng/Kg
SL-183-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0560 ng/Kg	0.0560U ng/Kg
SL-183-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0561 ng/Kg	0.0561U ng/Kg
SL-183-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0576 ng/Kg	0.0576U ng/Kg
SL-183-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0471 ng/Kg	0.0471U ng/Kg
SL-183-SA6-SB-9.0-10.0(RES)	OCDD	0.572 ng/Kg	0.572U ng/Kg
SL-183-SA6-SB-9.0-10.0(RES)	OCDF	0.307 ng/Kg	0.307U ng/Kg
SL-185-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.512 ng/Kg	0.512U ng/Kg
SL-185-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0569 ng/Kg	0.0569U ng/Kg
SL-185-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0581 ng/Kg	0.0581U ng/Kg
SL-185-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0495 ng/Kg	0.0495U ng/Kg
SL-185-SA6-SB-4.0-5.0(RES)	OCDF	0.133 ng/Kg	0.133U ng/Kg
SL-185-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.159 ng/Kg	0.159U ng/Kg
SL-185-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0381 ng/Kg	0.0381U ng/Kg
SL-185-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0597 ng/Kg	0.0597U ng/Kg
SL-185-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0768 ng/Kg	0.0768U ng/Kg
SL-185-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.120 ng/Kg	0.120U ng/Kg
SL-185-SA6-SB-9.0-10.0(RES)	OCDD	1.04 ng/Kg	1.04U ng/Kg
SL-185-SA6-SB-9.0-10.0(RES)	OCDF	0.214 ng/Kg	0.214U ng/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.287 ng/Kg	0.287U ng/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0816 ng/Kg	0.0816U ng/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0557 ng/Kg	0.0557U ng/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0579 ng/Kg	0.0579U ng/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0791 ng/Kg	0.0791U ng/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0982 ng/Kg	0.0982U ng/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0769 ng/Kg	0.0769U ng/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0923 ng/Kg	0.0923U ng/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.163 ng/Kg	0.163U ng/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	OCDD	1.21 ng/Kg	1.21U ng/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	OCDF	0.162 ng/Kg	0.162U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX127 **Laboratory: LL**

EDD Filename: DX127_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
MOISTURE	5.6	5.0	11		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
1,2,3,4,6,7,8-HPCDD	0.232	0.232	0	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.0664	0.0533	22	50.00	
1,2,3,6,7,8-HXCDF	0.0916	0.0558	49	50.00	
OCDD	0.725	0.660	9	50.00	
1,2,3,4,7,8-HxCDD	0.0694	5.18 U	200	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,7,8-HXCDF	0.0905	5.18 U	200	50.00	
1,2,3,6,7,8-HXCDD	0.0909	5.18 U	200	50.00	
1,2,3,7,8,9-HXCDD	0.150	0.0534	95	50.00	
1,2,3,7,8,9-HXCDF	0.110	0.0562	65	50.00	
1,2,3,7,8-PECDD	0.185	0.0893	70	50.00	
1,2,3,7,8-PECDF	0.164	5.18 U	200	50.00	
2,3,4,6,7,8-HXCDF	0.0675	5.18 U	200	50.00	
2,3,4,7,8-PECDF	0.139	0.0707	65	50.00	
OCDF	0.112	0.226	67	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX127 | Laboratory: LL

EDD Filename: DX127_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DN-SB-081111	1,2,3,4,6,7,8-HPCDD	JB	2.76	10.6	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.446	10.6	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.161	10.6	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.217	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.274	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.164	10.6	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.193	10.6	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.200	10.6	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDD	JB	0.136	10.6	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.0761	10.6	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.126	10.6	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.273	10.6	PQL	pg/L	
	2,3,7,8-TCDD	JBQ	0.152	2.11	PQL	pg/L	
	OCDD	JB	4.40	21.1	PQL	pg/L	
	OCDF	JB	0.433	21.1	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA6-QC-081111	1,2,3,4,6,7,8-HPCDD	JB	0.232	5.18	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0533	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0558	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0534	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0562	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0893	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0707	5.18	PQL	ng/Kg	
	OCDD	JB	0.660	10.4	PQL	ng/Kg	
	OCDF	JBQ	0.226	10.4	PQL	ng/Kg	
SL-006-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.55	5.66	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.319	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0768	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0663	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.105	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0327	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.135	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0986	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0828	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0468	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0584	5.66	PQL	ng/Kg	
	OCDF	JBQ	0.827	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX127 **Laboratory: LL**

EDD Filename: DX127_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.361	5.57	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0869	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0536	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0477	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.106	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0590	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0769	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0945	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0605	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.116	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0939	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.0503	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.112	5.57	PQL	ng/Kg	
	OCDD	JB	2.44	11.1	PQL	ng/Kg	
	OCDF	JB	0.263	11.1	PQL	ng/Kg	
SL-007-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.367	5.82	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0691	5.82	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0606	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0813	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.219	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0976	5.82	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.375	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0843	5.82	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0768	5.82	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0923	5.82	PQL	ng/Kg	
	OCDD	JBQ	1.40	11.6	PQL	ng/Kg	
	OCDF	JBQ	0.210	11.6	PQL	ng/Kg	
SL-033-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	4.60	5.18	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.947	5.18	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0637	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0799	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.196	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.114	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.237	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.135	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0952	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.134	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.248	5.18	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.112	1.04	PQL	ng/Kg	
	OCDF	JB	2.48	10.4	PQL	ng/Kg	
SL-071-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	1.32	5.71	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0633	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0419	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,6,7,8-HXCDD	J	0.0705	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0720	5.71	PQL	ng/Kg	
	OCDF	JB	0.189	11.4	PQL	ng/Kg	
SL-071-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.729	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0563	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0310	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0528	5.53	PQL	ng/Kg	J (all detects)
	2,3,4,6,7,8-HXCDF	JQ	0.0557	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0430	5.53	PQL	ng/Kg	
	OCDD	JB	2.98	11.1	PQL	ng/Kg	
	OCDF	JB	0.163	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX127 **Laboratory: LL**

EDD Filename: DX127_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-072-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	2.30	5.93	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.287	5.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.950	5.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0878	5.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.477	5.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.120	5.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0947	5.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.220	5.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0802	5.93	PQL	ng/Kg	
	OCDF	JB	5.56	11.9	PQL	ng/Kg	
SL-151-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.281	5.20	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0582	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0441	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0504	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0497	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.126	5.20	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0458	5.20	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.0398	5.20	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0481	5.20	PQL	ng/Kg	
	OCDD	JB	1.13	10.4	PQL	ng/Kg	
	OCDF	JB	0.181	10.4	PQL	ng/Kg	
SL-151-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.313	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0921	5.59	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0649	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0891	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.114	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0887	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0958	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.102	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.127	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.274	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.213	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0772	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.218	5.59	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.128	1.12	PQL	ng/Kg	
	OCDD	JBQ	0.891	11.2	PQL	ng/Kg	
	OCDF	JB	0.181	11.2	PQL	ng/Kg	
SL-155-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.232	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0664	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0694	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0905	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.0909	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0916	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.150	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.110	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.185	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.164	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.0675	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.139	5.28	PQL	ng/Kg	
	OCDD	JB	0.725	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.112	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX127 | Laboratory: LL

EDD Filename: DX127_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-174-SA6-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.395	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.102	5.21	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0881	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.128	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.154	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.117	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.144	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.119	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.103	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.113	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.163	5.21	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.101	1.04	PQL	ng/Kg	
	OCDD	JB	1.06	10.4	PQL	ng/Kg	
	OCDF	JBQ	0.147	10.4	PQL	ng/Kg	
SL-182-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.362	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0898	5.25	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0699	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.201	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.202	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.131	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.151	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.170	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.163	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.146	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.325	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.126	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.244	5.25	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.128	1.05	PQL	ng/Kg	
	OCDD	JB	3.62	10.5	PQL	ng/Kg	
	OCDF	JB	0.232	10.5	PQL	ng/Kg	
SL-182-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.205	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0749	5.60	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.108	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.154	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0984	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.197	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.121	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.183	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.287	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.159	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.0407	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.242	5.60	PQL	ng/Kg	
	OCDD	JBQ	0.713	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.214	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX127 **Laboratory: LL**

EDD Filename: DX127_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-183-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.505	5.48	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.143	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0969	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.131	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.136	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0731	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.123	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0788	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.203	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.233	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0800	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.142	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.136	1.10	PQL	ng/Kg	
	OCDD	JB	3.53	11.0	PQL	ng/Kg	
	OCDF	JB	0.172	11.0	PQL	ng/Kg	
SL-183-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.319	5.53	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0403	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0560	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0561	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0576	5.53	PQL	ng/Kg	J (all detects)
	2,3,4,6,7,8-HXCDF	J	0.0399	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0471	5.53	PQL	ng/Kg	
	OCDD	JB	0.572	11.1	PQL	ng/Kg	
	OCDF	JB	0.307	11.1	PQL	ng/Kg	
SL-185-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.512	5.52	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0569	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0581	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.475	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0631	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JQ	0.0752	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0495	5.52	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0786	1.10	PQL	ng/Kg	
	OCDD	JB	3.90	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.133	11.0	PQL	ng/Kg	
SL-185-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.159	5.57	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0381	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0597	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0760	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0768	5.57	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JBQ	0.120	5.57	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0961	1.11	PQL	ng/Kg	
	OCDD	JB	1.04	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.214	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX127 **Laboratory: LL**

EDD Filename: DX127_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-207-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.287	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0816	5.66	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0557	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0579	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0791	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.106	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0982	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0769	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0923	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.180	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.218	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0740	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.163	5.66	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.105	1.13	PQL	ng/Kg	
	OCDD	JB	1.21	11.3	PQL	ng/Kg	
	OCDF	JB	0.162	11.3	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX128

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
17-Aug-2011	SL-154-SA6-SB-3.0-4.0	6380503	N	METHOD	1613B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380506	N	METHOD	1613B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380507	MS	METHOD	1613B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380508	MSD	METHOD	1613B	III
17-Aug-2011	DUP12-SA6-QC-081711	6380510	FD	METHOD	1613B	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380504	N	METHOD	1613B	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380505	N	METHOD	1613B	III
17-Aug-2011	EB-SA6-SB-081711	6380511	EB	METHOD	1613B	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380509	N	METHOD	1613B	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0	6382932	N	METHOD	1613B	III
19-Aug-2011	SL-214-SA6-SB-1.0-2.0	6382933	N	METHOD	1613B	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384486	N	METHOD	1613B	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384477	N	METHOD	1613B	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384485	N	METHOD	1613B	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384482	N	METHOD	1613B	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384483	N	METHOD	1613B	III
22-Aug-2011	SL-242-SA6-SB-9.0-10.0	6384481	N	METHOD	1613B	III
22-Aug-2011	SL-242-SA6-SB-4.0-5.0	6384480	N	METHOD	1613B	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384484	N	METHOD	1613B	III
22-Aug-2011	SL-241-SA6-SB-4.0-5.0	6384478	N	METHOD	1613B	III
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384479	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX129 Laboratory: LL

EDD Filename: DX129_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** AQ

Sample ID: EB-SA6-SB-081711 *Collected:* 8/17/2011 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
1,2,3,4,6,7,8-HPCDD	2.81	JBQ	0.554	MDL	9.56	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.562	JBQ	0.236	MDL	9.56	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.367	JBQ	0.274	MDL	9.56	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.405	JBQ	0.372	MDL	9.56	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.277	JBQ	0.185	MDL	9.56	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.522	JBQ	0.373	MDL	9.56	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.316	JBQ	0.186	MDL	9.56	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.710	JBQ	0.490	MDL	9.56	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.303	JBQ	0.172	MDL	9.56	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.740	JB	0.233	MDL	9.56	PQL	pg/L	U	B
OCDD	4.18	JBQ	0.374	MDL	19.1	PQL	pg/L	U	B
OCDF	0.569	JBQ	0.553	MDL	19.1	PQL	pg/L	U	B

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: DUP12-SA6-QC-081711 *Collected:* 8/17/2011 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
1,2,3,4,6,7,8-HPCDD	0.310	JBQ	0.0390	MDL	5.30	PQL	ng/Kg	UJ	B, FD
1,2,3,4,6,7,8-HPCDF	0.156	JB	0.0139	MDL	5.30	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.230	J	0.0482	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.339	JB	0.0299	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	0.244	JBQ	0.0475	MDL	5.30	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.344	JB	0.0276	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDD	0.230	JB	0.0452	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDF	0.229	JB	0.0307	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	0.483	JBQ	0.0624	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.585	JB	0.0344	MDL	5.30	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.190	JBQ	0.0277	MDL	5.30	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	0.442	JB	0.0332	MDL	5.30	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDD	0.0807	JQ	0.0802	MDL	1.06	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.110	JQ	0.0573	MDL	1.06	PQL	ng/Kg	J	Z, FD
OCDD	0.299	JBQ	0.0365	MDL	10.6	PQL	ng/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: DX129 **Laboratory:** LL

EDD Filename: DX129_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: DUP12-SA6-QC-081711 *Collected:* 8/17/2011 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
OCDF	0.208	J	0.0569	MDL	10.6	PQL	ng/Kg	J	Z

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
1,2,3,4,6,7,8-HPCDF	3.19	JB	0.0378	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	1.57	J	0.0433	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.304	JQ	0.0642	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.739	JB	0.0634	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.15	JB	0.0751	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.621	JB	0.0629	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	2.04	JB	0.0807	MDL	5.55	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.94	JB	0.0746	MDL	5.55	PQL	ng/Kg	J	Z
OCDF	4.88	J	0.0558	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-154-SA6-SB-3.0-4.0 *Collected:* 8/17/2011 7:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.382	JB	0.0461	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0307	JBQ	0.0121	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0300	JQ	0.0263	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0301	JB	0.0197	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0292	JBQ	0.0169	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0723	JBQ	0.0342	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0295	JBQ	0.0233	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0293	JBQ	0.0186	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0537	JBQ	0.0241	MDL	5.24	PQL	ng/Kg	U	B
OCDD	4.14	JB	0.0432	MDL	10.5	PQL	ng/Kg	J	Z
OCDF	0.0760	JQ	0.0708	MDL	10.5	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.443	JB	0.0448	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.133	JBQ	0.0139	MDL	5.34	PQL	ng/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: DX129 **Laboratory:** LL

EDD Filename: DX129_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,7,8,9-HPCDF	0.0450	JQ	0.0232	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.159	JQ	0.0446	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.210	JB	0.0271	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.142	JBQ	0.0432	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.186	JB	0.0248	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.229	JB	0.0432	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.137	JB	0.0278	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.212	JB	0.0727	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0933	JBQ	0.0248	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.313	JBQ	0.0288	MDL	5.34	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0910	JQ	0.0841	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0765	JQ	0.0530	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	1.07	JB	0.0335	MDL	10.7	PQL	ng/Kg	U	B

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
1,2,3,4,6,7,8-HPCDD	3.27	JB	0.0609	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.539	JB	0.0189	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0675	JQ	0.0287	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.119	J	0.0444	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0803	JBQ	0.0287	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.193	JB	0.0450	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0649	JBQ	0.0257	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.212	JB	0.0434	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0339	JBQ	0.0322	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0891	JB	0.0608	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0542	JB	0.0263	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0727	JBQ	0.0292	MDL	5.53	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0689	JQ	0.0617	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	1.81	JQ	0.0649	MDL	11.1	PQL	ng/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: DX129 **Laboratory:** LL

EDD Filename: DX129_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-221-SA6-SB-1.0-2.0 *Collected:* 8/17/2011 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
1,2,3,4,6,7,8-HPCDD	2.06	JBQ	0.0597	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.170	JB	0.0163	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0420	JBQ	0.0230	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.102	JBQ	0.0381	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0361	JBQ	0.0209	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0801	JBQ	0.0409	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0409	JBQ	0.0278	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0302	JBQ	0.0221	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0437	JBQ	0.0256	MDL	5.29	PQL	ng/Kg	U	B
OCDF	0.512	JQ	0.0683	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-223-SA6-SB-2.5-3.5 *Collected:* 8/17/2011 11:56:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.358	JB	0.0611	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0574	JBQ	0.0180	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0303	JB	0.0270	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0970	JBQ	0.0389	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0868	JBQ	0.0279	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0875	JBQ	0.0742	MDL	5.00	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0888	JB	0.0347	MDL	5.00	PQL	ng/Kg	U	B
OCDD	2.16	JB	0.0413	MDL	10.0	PQL	ng/Kg	J	Z
OCDF	0.367	JQ	0.0953	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-224-SA6-SB-3.0-4.0 *Collected:* 8/17/2011 10:06:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.131	JBQ	0.0533	MDL	5.26	PQL	ng/Kg	UJ	B, FD
1,2,3,4,6,7,8-HPCDF	0.0332	JB	0.0182	MDL	5.26	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0433	U	0.0433	MDL	5.26	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.0268	U	0.0268	MDL	5.26	PQL	ng/Kg	UJ	FD
1,2,3,6,7,8-HXCDD	0.0414	U	0.0414	MDL	5.26	PQL	ng/Kg	UJ	FD
1,2,3,6,7,8-HXCDF	0.0232	U	0.0232	MDL	5.26	PQL	ng/Kg	UJ	FD
1,2,3,7,8,9-HXCDD	0.0949	JBQ	0.0389	MDL	5.26	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0239	U	0.0239	MDL	5.26	PQL	ng/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: DX129 **Laboratory:** LL

EDD Filename: DX129_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-224-SA6-SB-3.0-4.0 *Collected:* 8/17/2011 10:06:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.0659	U	0.0659	MDL	5.26	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.0312	JB	0.0292	MDL	5.26	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0209	U	0.0209	MDL	5.26	PQL	ng/Kg	UJ	FD
2,3,4,7,8-PECDF	0.0298	JBQ	0.0287	MDL	5.26	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0769	U	0.0769	MDL	1.05	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.0635	U	0.0635	MDL	1.05	PQL	ng/Kg	UJ	FD
OCDD	0.263	JBQ	0.0435	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.133	JQ	0.0823	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-226-SA6-SB-3.5-4.5 *Collected:* 8/17/2011 2:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.946	JB	0.0518	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.219	JB	0.0157	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0948	J	0.0255	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.165	J	0.0376	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.196	JB	0.0298	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.230	JB	0.0376	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.189	JBQ	0.0272	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.233	JBQ	0.0357	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.225	JB	0.0307	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.229	JB	0.0620	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.344	JB	0.0310	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.128	JBQ	0.0275	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.314	JB	0.0289	MDL	5.18	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.170	JQ	0.0763	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	0.539	J	0.0608	MDL	10.4	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.282	JBQ	0.0363	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0463	JBQ	0.0109	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0399	J	0.0165	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0506	JB	0.0187	MDL	5.21	PQL	ng/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: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

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
1,2,3,6,7,8-HXCDD	0.0570	JB	0.0255	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0240	JB	0.0168	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0388	JBQ	0.0248	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0320	JBQ	0.0194	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0225	JBQ	0.0218	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0267	JBQ	0.0162	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0522	JB	0.0206	MDL	5.21	PQL	ng/Kg	U	B
OCDD	1.56	JB	0.0329	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.107	J	0.0465	MDL	10.4	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.283	JB	0.0420	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0462	JB	0.0103	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0313	JQ	0.0155	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0239	JBQ	0.0190	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0483	JB	0.0293	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0221	JBQ	0.0172	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0861	JBQ	0.0221	MDL	5.37	PQL	ng/Kg	U	B
OCDD	0.480	JB	0.0321	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.147	JQ	0.0565	MDL	10.7	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.315	JB	0.0422	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0498	JB	0.0109	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0427	JQ	0.0183	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0257	JB	0.0196	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.114	JBQ	0.0288	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0239	JBQ	0.0175	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.218	JB	0.0276	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.216	JB	0.0206	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0640	JBQ	0.0218	MDL	5.29	PQL	ng/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: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

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
2,3,4,6,7,8-HXCDF	0.0301	JBQ	0.0179	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0342	JB	0.0213	MDL	5.29	PQL	ng/Kg	U	B
OCDD	2.25	JB	0.0320	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.100	JQ	0.0536	MDL	10.6	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.365	JB	0.0421	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.122	JBQ	0.0137	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0507	JQ	0.0223	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0342	JQ	0.0341	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0763	JBQ	0.0253	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0837	JBQ	0.0348	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0473	JBQ	0.0232	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0946	JBQ	0.0344	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0529	JBQ	0.0264	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0885	JBQ	0.0537	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.195	JBQ	0.0292	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0765	JBQ	0.0232	MDL	5.25	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.170	JB	0.0264	MDL	5.25	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0834	J	0.0686	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0563	JQ	0.0512	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	1.41	JB	0.0368	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.166	JQ	0.0489	MDL	10.5	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.969	JB	0.0452	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.166	JB	0.0120	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0667	J	0.0254	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0900	J	0.0345	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.196	JB	0.0269	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.156	JB	0.0362	MDL	5.08	PQL	ng/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: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

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
1,2,3,6,7,8-HXCDF	0.169	JBQ	0.0233	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.151	JB	0.0351	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.162	JB	0.0289	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.222	JB	0.0450	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.324	JB	0.0250	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.111	JBQ	0.0240	MDL	5.08	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.301	JB	0.0249	MDL	5.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0657	J	0.0533	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0889	J	0.0408	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	9.19	JB	0.0400	MDL	10.2	PQL	ng/Kg	J	Z
OCDF	0.372	JQ	0.0524	MDL	10.2	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.389	JBQ	0.0458	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.157	JB	0.0144	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0531	JQ	0.0258	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.138	JQ	0.0376	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.178	JB	0.0270	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.150	JBQ	0.0383	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.142	JBQ	0.0234	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.131	JBQ	0.0382	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.153	JBQ	0.0259	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.315	JBQ	0.0619	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.334	JB	0.0293	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.119	JBQ	0.0243	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.320	JB	0.0278	MDL	5.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.121	J	0.0741	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0977	JQ	0.0489	MDL	1.03	PQL	ng/Kg	J	Z
OCDD	1.95	JB	0.0362	MDL	10.3	PQL	ng/Kg	U	B
OCDF	0.161	JQ	0.0628	MDL	10.3	PQL	ng/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: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,6,7,8-HPCDD	1.57	JB	0.0484	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.271	JBQ	0.0158	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0889	J	0.0316	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.116	JQ	0.0368	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.211	JB	0.0243	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.146	JB	0.0368	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.145	JBQ	0.0213	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.125	JBQ	0.0370	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.124	JB	0.0274	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.126	JBQ	0.0511	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.230	JB	0.0270	MDL	5.39	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0814	JB	0.0232	MDL	5.39	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.224	JBQ	0.0258	MDL	5.39	PQL	ng/Kg	U	B
OCDF	0.654	JQ	0.0621	MDL	10.8	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	2.28	JB	0.0348	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.301	JB	0.0139	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0415	JB	0.0205	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0491	JB	0.0154	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.170	JBQ	0.0246	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0273	JB	0.0135	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.210	JBQ	0.0230	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.113	JBQ	0.0163	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0304	JBQ	0.0181	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0750	JBQ	0.0135	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0322	JBQ	0.0138	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0637	JBQ	0.0138	MDL	5.48	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0246	J	0.0218	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	0.781	JB	0.0285	MDL	11.0	PQL	ng/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: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **GENCHEM**

Method: **1613B** ***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
1,2,3,4,6,7,8-HPCDF	2.46	JB	0.0315	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.491	J	0.0494	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.458	JQ	0.0561	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.353	JB	0.0351	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.537	JBQ	0.0545	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.280	JB	0.0316	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.370	JB	0.0523	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.226	JBQ	0.0343	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.615	JB	0.0524	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.516	JBQ	0.0277	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.264	JB	0.0306	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.464	JB	0.0256	MDL	5.18	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.163	JQ	0.0548	MDL	1.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0808	J	0.0416	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	4.83	J	0.0503	MDL	10.4	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_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

Data Qualifier Summary

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX129

Method Blank Outlier Report

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2340B371734	8/23/2011 5:34:00 PM	1,2,3,4,6,7,8-HPCDD	2.80 pg/L	EB-SA6-SB-081711
		1,2,3,4,6,7,8-HPCDF	0.632 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.512 pg/L	
		1,2,3,4,7,8-HxCDD	0.765 pg/L	
		1,2,3,4,7,8-HXCDF	0.547 pg/L	
		1,2,3,6,7,8-HXCDD	0.856 pg/L	
		1,2,3,6,7,8-HXCDF	0.489 pg/L	
		1,2,3,7,8,9-HXCDD	0.876 pg/L	
		1,2,3,7,8,9-HXCDF	0.588 pg/L	
		1,2,3,7,8-PECDD	0.858 pg/L	
		2,3,4,6,7,8-HXCDF	0.562 pg/L	
		2,3,4,7,8-PECDF	1.02 pg/L	
		OCDD	6.56 pg/L	
		OCDF	2.84 pg/L	

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-081711(RES)	1,2,3,4,6,7,8-HPCDD	2.81 pg/L	2.81U pg/L
EB-SA6-SB-081711(RES)	1,2,3,4,6,7,8-HPCDF	0.562 pg/L	0.562U pg/L
EB-SA6-SB-081711(RES)	1,2,3,4,7,8,9-HPCDF	0.367 pg/L	0.367U pg/L
EB-SA6-SB-081711(RES)	1,2,3,4,7,8-HxCDD	0.405 pg/L	0.405U pg/L
EB-SA6-SB-081711(RES)	1,2,3,6,7,8-HXCDF	0.277 pg/L	0.277U pg/L
EB-SA6-SB-081711(RES)	1,2,3,7,8,9-HXCDD	0.522 pg/L	0.522U pg/L
EB-SA6-SB-081711(RES)	1,2,3,7,8,9-HXCDF	0.316 pg/L	0.316U pg/L
EB-SA6-SB-081711(RES)	1,2,3,7,8-PECDD	0.710 pg/L	0.710U pg/L
EB-SA6-SB-081711(RES)	2,3,4,6,7,8-HXCDF	0.303 pg/L	0.303U pg/L
EB-SA6-SB-081711(RES)	2,3,4,7,8-PECDF	0.740 pg/L	0.740U pg/L
EB-SA6-SB-081711(RES)	OCDD	4.18 pg/L	4.18U pg/L
EB-SA6-SB-081711(RES)	OCDF	0.569 pg/L	0.569U pg/L

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2380B370305	8/30/2011 3:05:00 AM	1,2,3,4,6,7,8-HPCDD	0.236 ng/Kg	DUP12-SA6-QC-081711
		1,2,3,4,6,7,8-HPCDF	0.0494 ng/Kg	SL-007-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0519 ng/Kg	SL-154-SA6-SB-3.0-4.0
		1,2,3,6,7,8-HXCDD	0.0513 ng/Kg	SL-214-SA6-SB-1.0-2.0
		1,2,3,6,7,8-HXCDF	0.0537 ng/Kg	SL-215-SA6-SB-4.0-5.0
		1,2,3,7,8,9-HXCDD	0.0428 ng/Kg	SL-221-SA6-SB-1.0-2.0
		1,2,3,7,8,9-HXCDF	0.0356 ng/Kg	SL-223-SA6-SB-2.5-3.5
		1,2,3,7,8-PECDD	0.0682 ng/Kg	SL-224-SA6-SB-3.0-4.0
		1,2,3,7,8-PECDF	0.0365 ng/Kg	SL-226-SA6-SB-3.5-4.5
		2,3,4,6,7,8-HXCDF	0.0234 ng/Kg	SL-241-SA6-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0544 ng/Kg	SL-241-SA6-SB-9.0-10.0
		OCDD	0.426 ng/Kg	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-315-SA6-SB-3.0-4.0

Method Blank Outlier Report

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2410B372134	8/30/2011 9:34:00 PM	1,2,3,4,6,7,8-HPCDD	0.173 ng/Kg	SL-310-SA6-SB-4.0-5.0
		1,2,3,4,6,7,8-HPCDF	0.0734 ng/Kg	
		1,2,3,4,7,8,9-HPCDF	0.0294 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0282 ng/Kg	
		1,2,3,4,7,8-HXCDF	0.0284 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0221 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0303 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0198 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0230 ng/Kg	
		1,2,3,7,8-PECDD	0.0366 ng/Kg	
		1,2,3,7,8-PECDF	0.0276 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0245 ng/Kg	
		2,3,4,7,8-PECDF	0.0636 ng/Kg	
		OCDD	0.349 ng/Kg	
		OCDF	0.0879 ng/Kg	

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
DUP12-SA6-QC-081711(RES)	1,2,3,4,6,7,8-HPCDD	0.310 ng/Kg	0.310U ng/Kg
DUP12-SA6-QC-081711(RES)	1,2,3,4,6,7,8-HPCDF	0.156 ng/Kg	0.156U ng/Kg
DUP12-SA6-QC-081711(RES)	1,2,3,6,7,8-HXCDD	0.244 ng/Kg	0.244U ng/Kg
DUP12-SA6-QC-081711(RES)	OCDD	0.299 ng/Kg	0.299U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.382 ng/Kg	0.382U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0307 ng/Kg	0.0307U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0301 ng/Kg	0.0301U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0292 ng/Kg	0.0292U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.0723 ng/Kg	0.0723U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0295 ng/Kg	0.0295U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0293 ng/Kg	0.0293U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0537 ng/Kg	0.0537U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDD	0.443 ng/Kg	0.443U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDF	0.133 ng/Kg	0.133U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8-HXCDF	0.210 ng/Kg	0.210U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDD	0.142 ng/Kg	0.142U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDF	0.186 ng/Kg	0.186U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDF	0.137 ng/Kg	0.137U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,7,8-PECDD	0.212 ng/Kg	0.212U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	2,3,4,6,7,8-HXCDF	0.0933 ng/Kg	0.0933U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	OCDD	1.07 ng/Kg	1.07U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0803 ng/Kg	0.0803U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.193 ng/Kg	0.193U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0649 ng/Kg	0.0649U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.212 ng/Kg	0.212U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0339 ng/Kg	0.0339U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0891 ng/Kg	0.0891U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0542 ng/Kg	0.0542U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0727 ng/Kg	0.0727U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDF	0.170 ng/Kg	0.170U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-221-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8-HXCDF	0.0420 ng/Kg	0.0420U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDD	0.102 ng/Kg	0.102U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDF	0.0361 ng/Kg	0.0361U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDD	0.0801 ng/Kg	0.0801U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDF	0.0409 ng/Kg	0.0409U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	2,3,4,6,7,8-HXCDF	0.0302 ng/Kg	0.0302U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	2,3,4,7,8-PECDF	0.0437 ng/Kg	0.0437U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.358 ng/Kg	0.358U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0574 ng/Kg	0.0574U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.0303 ng/Kg	0.0303U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.0970 ng/Kg	0.0970U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.0868 ng/Kg	0.0868U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.0875 ng/Kg	0.0875U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.0888 ng/Kg	0.0888U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.131 ng/Kg	0.131U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0332 ng/Kg	0.0332U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.0949 ng/Kg	0.0949U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0312 ng/Kg	0.0312U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0298 ng/Kg	0.0298U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	OCDD	0.263 ng/Kg	0.263U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.946 ng/Kg	0.946U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.219 ng/Kg	0.219U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8-HXCDF	0.196 ng/Kg	0.196U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDD	0.230 ng/Kg	0.230U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDF	0.189 ng/Kg	0.189U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.229 ng/Kg	0.229U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.282 ng/Kg	0.282U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0463 ng/Kg	0.0463U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0506 ng/Kg	0.0506U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0570 ng/Kg	0.0570U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0240 ng/Kg	0.0240U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0388 ng/Kg	0.0388U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0320 ng/Kg	0.0320U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0225 ng/Kg	0.0225U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0267 ng/Kg	0.0267U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0522 ng/Kg	0.0522U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	OCDD	1.56 ng/Kg	1.56U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.283 ng/Kg	0.283U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0462 ng/Kg	0.0462U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0239 ng/Kg	0.0239U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-241-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0483 ng/Kg	0.0483U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0221 ng/Kg	0.0221U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0861 ng/Kg	0.0861U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	OCDD	0.480 ng/Kg	0.480U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,4,8,7,8-HPCDD	0.315 ng/Kg	0.315U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0498 ng/Kg	0.0498U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0257 ng/Kg	0.0257U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.114 ng/Kg	0.114U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0239 ng/Kg	0.0239U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0640 ng/Kg	0.0640U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0301 ng/Kg	0.0301U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0342 ng/Kg	0.0342U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.365 ng/Kg	0.365U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.122 ng/Kg	0.122U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0763 ng/Kg	0.0763U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0837 ng/Kg	0.0837U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0473 ng/Kg	0.0473U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0946 ng/Kg	0.0946U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0529 ng/Kg	0.0529U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0885 ng/Kg	0.0885U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0765 ng/Kg	0.0765U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.170 ng/Kg	0.170U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	OCDD	1.41 ng/Kg	1.41U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDD	0.969 ng/Kg	0.969U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDF	0.168 ng/Kg	0.168U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8-HXCDF	0.196 ng/Kg	0.196U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDD	0.156 ng/Kg	0.156U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDF	0.169 ng/Kg	0.169U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDD	0.151 ng/Kg	0.151U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDF	0.162 ng/Kg	0.162U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,7,8-PECDD	0.222 ng/Kg	0.222U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	2,3,4,6,7,8-HXCDF	0.111 ng/Kg	0.111U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.389 ng/Kg	0.389U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.157 ng/Kg	0.157U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.178 ng/Kg	0.178U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.150 ng/Kg	0.150U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.142 ng/Kg	0.142U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.131 ng/Kg	0.131U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.153 ng/Kg	0.153U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.315 ng/Kg	0.315U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-4.0-5.0(RES)	OCDD	1.95 ng/Kg	1.95U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.211 ng/Kg	0.211U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.146 ng/Kg	0.146U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.145 ng/Kg	0.145U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.125 ng/Kg	0.125U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.124 ng/Kg	0.124U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.126 ng/Kg	0.126U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0814 ng/Kg	0.0814U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.224 ng/Kg	0.224U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.301 ng/Kg	0.301U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0415 ng/Kg	0.0415U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0491 ng/Kg	0.0491U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0273 ng/Kg	0.0273U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.113 ng/Kg	0.113U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0304 ng/Kg	0.0304U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0750 ng/Kg	0.0750U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0322 ng/Kg	0.0322U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0637 ng/Kg	0.0637U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_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: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-224-SA6-SB-3.0-4.0	DUP12-SA6-QC-081711			
OCDD	0.263	0.299	13	50.00	No Qualifiers Applied
OCDF	0.133	0.208	44	50.00	
1,2,3,4,6,7,8-HPCDD	0.131	0.310	81	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,6,7,8-HPCDF	0.0332	0.156	130	50.00	
1,2,3,4,7,8-HxCDD	5.26 U	0.230	200	50.00	
1,2,3,4,7,8-HXCDF	5.26 U	0.339	200	50.00	
1,2,3,6,7,8-HXCDD	5.26 U	0.244	200	50.00	
1,2,3,6,7,8-HXCDF	5.26 U	0.344	200	50.00	
1,2,3,7,8,9-HXCDD	0.0949	0.230	83	50.00	
1,2,3,7,8,9-HXCDF	5.26 U	0.229	200	50.00	
1,2,3,7,8-PECDD	5.26 U	0.483	200	50.00	
1,2,3,7,8-PECDF	0.0312	0.585	180	50.00	
2,3,4,6,7,8-HXCDF	5.26 U	0.190	200	50.00	
2,3,4,7,8-PECDF	0.0298	0.442	175	50.00	
2,3,7,8-TCDD	1.05 U	0.0807	200	50.00	
2,3,7,8-TCDF	1.05 U	0.110	200	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX129 Laboratory: LL

EDD Filename: DX129_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-081711	1,2,3,4,6,7,8-HPCDD	JBQ	2.81	9.56	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.562	9.56	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.367	9.56	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.405	9.56	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.277	9.56	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.522	9.56	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.316	9.56	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.710	9.56	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.303	9.56	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.740	9.56	PQL	pg/L	
	OCDD	JBQ	4.18	19.1	PQL	pg/L	
	OCDF	JBQ	0.569	19.1	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP12-SA6-QC-081711	1,2,3,4,6,7,8-HPCDD	JBQ	0.310	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.156	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.230	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.339	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.244	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.344	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.230	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.229	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.483	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.585	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.190	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.442	5.30	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0807	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.110	1.06	PQL	ng/Kg	
	OCDD	JBQ	0.299	10.6	PQL	ng/Kg	
	OCDF	J	0.208	10.6	PQL	ng/Kg	
SL-007-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.19	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	J	1.57	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.304	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.739	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.15	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.621	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	2.04	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.94	5.55	PQL	ng/Kg	
	OCDF	J	4.88	11.1	PQL	ng/Kg	
SL-154-SA6-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.382	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0307	5.24	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0300	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0301	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0292	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0723	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0295	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0293	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0537	5.24	PQL	ng/Kg	
	OCDD	JB	4.14	10.5	PQL	ng/Kg	
	OCDF	JQ	0.0760	10.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-214-SA6-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDD	JB	0.443	5.34	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.133	5.34	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0450	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.159	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.210	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.142	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.186	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.229	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.137	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.212	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0933	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.313	5.34	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0910	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0765	1.07	PQL	ng/Kg	
	OCDD	JB	1.07	10.7	PQL	ng/Kg	
SL-215-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	3.27	5.53	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.539	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0675	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.119	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0803	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.193	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0649	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.212	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0339	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0891	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0542	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0727	5.53	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0689	1.11	PQL	ng/Kg	
	OCDF	JQ	1.81	11.1	PQL	ng/Kg	
SL-221-SA6-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDD	JBQ	2.06	5.29	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.170	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0420	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.102	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0361	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.0801	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0409	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0302	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0437	5.29	PQL	ng/Kg	
	OCDF	JQ	0.512	10.6	PQL	ng/Kg	
SL-223-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	0.358	5.00	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0574	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0303	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0970	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0868	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0875	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0888	5.00	PQL	ng/Kg	
	OCDD	JB	2.16	10.0	PQL	ng/Kg	
	OCDF	JQ	0.367	10.0	PQL	ng/Kg	
SL-224-SA6-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.131	5.26	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0332	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0949	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0312	5.26	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JBQ	0.0298	5.26	PQL	ng/Kg	
	OCDD	JBQ	0.263	10.5	PQL	ng/Kg	
	OCDF	JQ	0.133	10.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-226-SA6-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JB	0.946	5.18	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.219	5.18	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.0948	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.165	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.196	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.230	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.189	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.233	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.225	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.229	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.344	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.128	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.314	5.18	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.170	1.04	PQL	ng/Kg	
	OCDF	J	0.539	10.4	PQL	ng/Kg	
SL-241-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.282	5.21	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0463	5.21	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.0399	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0506	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0570	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0240	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0388	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0320	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0225	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0267	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0522	5.21	PQL	ng/Kg	
	OCDD	JB	1.56	10.4	PQL	ng/Kg	
	OCDF	J	0.107	10.4	PQL	ng/Kg	
SL-241-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.283	5.37	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0462	5.37	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0313	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0239	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0483	5.37	PQL	ng/Kg	J (all detects)
	2,3,4,6,7,8-HXCDF	JBQ	0.0221	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0861	5.37	PQL	ng/Kg	
	OCDD	JB	0.480	10.7	PQL	ng/Kg	
	OCDF	JQ	0.147	10.7	PQL	ng/Kg	
SL-242-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.315	5.29	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0498	5.29	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0427	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0257	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.114	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0239	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.218	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.216	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0640	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0301	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0342	5.29	PQL	ng/Kg	
	OCDD	JB	2.25	10.6	PQL	ng/Kg	
	OCDF	JQ	0.100	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-242-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.365	5.25	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.122	5.25	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0507	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0342	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0763	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0837	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0473	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0946	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0529	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0885	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.195	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0765	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.170	5.25	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0834	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0563	1.05	PQL	ng/Kg	
	OCDD	JB	1.41	10.5	PQL	ng/Kg	
	OCDF	JQ	0.166	10.5	PQL	ng/Kg	
SL-279-SA6-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDD	JB	0.969	5.08	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.166	5.08	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.0667	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0900	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.196	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.156	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.169	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.151	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.162	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.222	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.324	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.111	5.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.301	5.08	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0657	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0889	1.02	PQL	ng/Kg	
	OCDD	JB	9.19	10.2	PQL	ng/Kg	
	OCDF	JQ	0.372	10.2	PQL	ng/Kg	
SL-279-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.389	5.13	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.157	5.13	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0531	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.138	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.178	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.150	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.142	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.131	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.153	5.13	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.315	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.334	5.13	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.119	5.13	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.320	5.13	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.121	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0977	1.03	PQL	ng/Kg	
	OCDD	JB	1.95	10.3	PQL	ng/Kg	
	OCDF	JQ	0.161	10.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-279-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.57	5.39	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.271	5.39	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.0889	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.116	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.211	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.146	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.145	5.39	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.125	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.124	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.126	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.230	5.39	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0814	5.39	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.224	5.39	PQL	ng/Kg	
	OCDF	JQ	0.654	10.8	PQL	ng/Kg	
SL-310-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.28	5.48	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.301	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0415	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0491	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.170	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0273	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.210	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.113	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0304	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0750	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0322	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0637	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0246	1.10	PQL	ng/Kg	
	OCDF	JB	0.781	11.0	PQL	ng/Kg	
SL-315-SA6-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDF	JB	2.46	5.18	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.491	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.458	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.353	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.537	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.280	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.370	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.226	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.615	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.516	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.264	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.464	5.18	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.163	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0808	1.04	PQL	ng/Kg	
	OCDF	J	4.83	10.4	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX129

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
17-Aug-2011	SL-154-SA6-SB-3.0-4.0	6380503	N	METHOD	1613B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380506	N	METHOD	1613B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380507	MS	METHOD	1613B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380508	MSD	METHOD	1613B	III
17-Aug-2011	DUP12-SA6-QC-081711	6380510	FD	METHOD	1613B	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380504	N	METHOD	1613B	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380505	N	METHOD	1613B	III
17-Aug-2011	EB-SA6-SB-081711	6380511	EB	METHOD	1613B	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380509	N	METHOD	1613B	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0	6382932	N	METHOD	1613B	III
19-Aug-2011	SL-214-SA6-SB-1.0-2.0	6382933	N	METHOD	1613B	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384486	N	METHOD	1613B	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384477	N	METHOD	1613B	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384485	N	METHOD	1613B	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384482	N	METHOD	1613B	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384483	N	METHOD	1613B	III
22-Aug-2011	SL-242-SA6-SB-9.0-10.0	6384481	N	METHOD	1613B	III
22-Aug-2011	SL-242-SA6-SB-4.0-5.0	6384480	N	METHOD	1613B	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384484	N	METHOD	1613B	III
22-Aug-2011	SL-241-SA6-SB-4.0-5.0	6384478	N	METHOD	1613B	III
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384479	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX129 Laboratory: LL

EDD Filename: DX129_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** AQ

Sample ID: EB-SA6-SB-081711 *Collected:* 8/17/2011 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
1,2,3,4,6,7,8-HPCDD	2.81	JBQ	0.554	MDL	9.56	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.562	JBQ	0.236	MDL	9.56	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.367	JBQ	0.274	MDL	9.56	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.405	JBQ	0.372	MDL	9.56	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.277	JBQ	0.185	MDL	9.56	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.522	JBQ	0.373	MDL	9.56	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.316	JBQ	0.186	MDL	9.56	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.710	JBQ	0.490	MDL	9.56	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.303	JBQ	0.172	MDL	9.56	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.740	JB	0.233	MDL	9.56	PQL	pg/L	U	B
OCDD	4.18	JBQ	0.374	MDL	19.1	PQL	pg/L	U	B
OCDF	0.569	JBQ	0.553	MDL	19.1	PQL	pg/L	U	B

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: DUP12-SA6-QC-081711 *Collected:* 8/17/2011 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
1,2,3,4,6,7,8-HPCDD	0.310	JBQ	0.0390	MDL	5.30	PQL	ng/Kg	UJ	B, FD
1,2,3,4,6,7,8-HPCDF	0.156	JB	0.0139	MDL	5.30	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.230	J	0.0482	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.339	JB	0.0299	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	0.244	JBQ	0.0475	MDL	5.30	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.344	JB	0.0276	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDD	0.230	JB	0.0452	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDF	0.229	JB	0.0307	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	0.483	JBQ	0.0624	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.585	JB	0.0344	MDL	5.30	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.190	JBQ	0.0277	MDL	5.30	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	0.442	JB	0.0332	MDL	5.30	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDD	0.0807	JQ	0.0802	MDL	1.06	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.110	JQ	0.0573	MDL	1.06	PQL	ng/Kg	J	Z, FD
OCDD	0.299	JBQ	0.0365	MDL	10.6	PQL	ng/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: DX129 **Laboratory:** LL

EDD Filename: DX129_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: DUP12-SA6-QC-081711 *Collected:* 8/17/2011 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
OCDF	0.208	J	0.0569	MDL	10.6	PQL	ng/Kg	J	Z

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
1,2,3,4,6,7,8-HPCDF	3.19	JB	0.0378	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	1.57	J	0.0433	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.304	JQ	0.0642	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.739	JB	0.0634	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.15	JB	0.0751	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.621	JB	0.0629	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	2.04	JB	0.0807	MDL	5.55	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.94	JB	0.0746	MDL	5.55	PQL	ng/Kg	J	Z
OCDF	4.88	J	0.0558	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-154-SA6-SB-3.0-4.0 *Collected:* 8/17/2011 7:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.382	JB	0.0461	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0307	JBQ	0.0121	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0300	JQ	0.0263	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0301	JB	0.0197	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0292	JBQ	0.0169	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0723	JBQ	0.0342	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0295	JBQ	0.0233	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0293	JBQ	0.0186	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0537	JBQ	0.0241	MDL	5.24	PQL	ng/Kg	U	B
OCDD	4.14	JB	0.0432	MDL	10.5	PQL	ng/Kg	J	Z
OCDF	0.0760	JQ	0.0708	MDL	10.5	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.443	JB	0.0448	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.133	JBQ	0.0139	MDL	5.34	PQL	ng/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: DX129 **Laboratory:** LL

EDD Filename: DX129_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,7,8,9-HPCDF	0.0450	JQ	0.0232	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.159	JQ	0.0446	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.210	JB	0.0271	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.142	JBQ	0.0432	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.186	JB	0.0248	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.229	JB	0.0432	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.137	JB	0.0278	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.212	JB	0.0727	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0933	JBQ	0.0248	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.313	JBQ	0.0288	MDL	5.34	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0910	JQ	0.0841	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0765	JQ	0.0530	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	1.07	JB	0.0335	MDL	10.7	PQL	ng/Kg	U	B

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
1,2,3,4,6,7,8-HPCDD	3.27	JB	0.0609	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.539	JB	0.0189	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0675	JQ	0.0287	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.119	J	0.0444	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0803	JBQ	0.0287	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.193	JB	0.0450	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0649	JBQ	0.0257	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.212	JB	0.0434	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0339	JBQ	0.0322	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0891	JB	0.0608	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0542	JB	0.0263	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0727	JBQ	0.0292	MDL	5.53	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0689	JQ	0.0617	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	1.81	JQ	0.0649	MDL	11.1	PQL	ng/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: DX129 **Laboratory:** LL

EDD Filename: DX129_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-221-SA6-SB-1.0-2.0 *Collected:* 8/17/2011 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
1,2,3,4,6,7,8-HPCDD	2.06	JBQ	0.0597	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.170	JB	0.0163	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0420	JBQ	0.0230	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.102	JBQ	0.0381	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0361	JBQ	0.0209	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0801	JBQ	0.0409	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0409	JBQ	0.0278	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0302	JBQ	0.0221	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0437	JBQ	0.0256	MDL	5.29	PQL	ng/Kg	U	B
OCDF	0.512	JQ	0.0683	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-223-SA6-SB-2.5-3.5 *Collected:* 8/17/2011 11:56:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.358	JB	0.0611	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0574	JBQ	0.0180	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0303	JB	0.0270	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0970	JBQ	0.0389	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0868	JBQ	0.0279	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0875	JBQ	0.0742	MDL	5.00	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0888	JB	0.0347	MDL	5.00	PQL	ng/Kg	U	B
OCDD	2.16	JB	0.0413	MDL	10.0	PQL	ng/Kg	J	Z
OCDF	0.367	JQ	0.0953	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-224-SA6-SB-3.0-4.0 *Collected:* 8/17/2011 10:06:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.131	JBQ	0.0533	MDL	5.26	PQL	ng/Kg	UJ	B, FD
1,2,3,4,6,7,8-HPCDF	0.0332	JB	0.0182	MDL	5.26	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0433	U	0.0433	MDL	5.26	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.0268	U	0.0268	MDL	5.26	PQL	ng/Kg	UJ	FD
1,2,3,6,7,8-HXCDD	0.0414	U	0.0414	MDL	5.26	PQL	ng/Kg	UJ	FD
1,2,3,6,7,8-HXCDF	0.0232	U	0.0232	MDL	5.26	PQL	ng/Kg	UJ	FD
1,2,3,7,8,9-HXCDD	0.0949	JBQ	0.0389	MDL	5.26	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0239	U	0.0239	MDL	5.26	PQL	ng/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: DX129 **Laboratory:** LL

EDD Filename: DX129_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-224-SA6-SB-3.0-4.0 *Collected:* 8/17/2011 10:06:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.0659	U	0.0659	MDL	5.26	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.0312	JB	0.0292	MDL	5.26	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0209	U	0.0209	MDL	5.26	PQL	ng/Kg	UJ	FD
2,3,4,7,8-PECDF	0.0298	JBQ	0.0287	MDL	5.26	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0769	U	0.0769	MDL	1.05	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.0635	U	0.0635	MDL	1.05	PQL	ng/Kg	UJ	FD
OCDD	0.263	JBQ	0.0435	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.133	JQ	0.0823	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-226-SA6-SB-3.5-4.5 *Collected:* 8/17/2011 2:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.946	JB	0.0518	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.219	JB	0.0157	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0948	J	0.0255	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.165	J	0.0376	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.196	JB	0.0298	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.230	JB	0.0376	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.189	JBQ	0.0272	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.233	JBQ	0.0357	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.225	JB	0.0307	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.229	JB	0.0620	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.344	JB	0.0310	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.128	JBQ	0.0275	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.314	JB	0.0289	MDL	5.18	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.170	JQ	0.0763	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	0.539	J	0.0608	MDL	10.4	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.282	JBQ	0.0363	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0463	JBQ	0.0109	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0399	J	0.0165	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0506	JB	0.0187	MDL	5.21	PQL	ng/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: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

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
1,2,3,6,7,8-HXCDD	0.0570	JB	0.0255	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0240	JB	0.0168	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0388	JBQ	0.0248	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0320	JBQ	0.0194	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0225	JBQ	0.0218	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0267	JBQ	0.0162	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0522	JB	0.0206	MDL	5.21	PQL	ng/Kg	U	B
OCDD	1.56	JB	0.0329	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.107	J	0.0465	MDL	10.4	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.283	JB	0.0420	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0462	JB	0.0103	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0313	JQ	0.0155	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0239	JBQ	0.0190	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0483	JB	0.0293	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0221	JBQ	0.0172	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0861	JBQ	0.0221	MDL	5.37	PQL	ng/Kg	U	B
OCDD	0.480	JB	0.0321	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.147	JQ	0.0565	MDL	10.7	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.315	JB	0.0422	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0498	JB	0.0109	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0427	JQ	0.0183	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0257	JB	0.0196	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.114	JBQ	0.0288	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0239	JBQ	0.0175	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.218	JB	0.0276	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.216	JB	0.0206	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0640	JBQ	0.0218	MDL	5.29	PQL	ng/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: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

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
2,3,4,6,7,8-HXCDF	0.0301	JBQ	0.0179	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0342	JB	0.0213	MDL	5.29	PQL	ng/Kg	U	B
OCDD	2.25	JB	0.0320	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.100	JQ	0.0536	MDL	10.6	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.365	JB	0.0421	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.122	JBQ	0.0137	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0507	JQ	0.0223	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0342	JQ	0.0341	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0763	JBQ	0.0253	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0837	JBQ	0.0348	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0473	JBQ	0.0232	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0946	JBQ	0.0344	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0529	JBQ	0.0264	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0885	JBQ	0.0537	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.195	JBQ	0.0292	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0765	JBQ	0.0232	MDL	5.25	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.170	JB	0.0264	MDL	5.25	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0834	J	0.0686	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0563	JQ	0.0512	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	1.41	JB	0.0368	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.166	JQ	0.0489	MDL	10.5	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.969	JB	0.0452	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.166	JB	0.0120	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0667	J	0.0254	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0900	J	0.0345	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.196	JB	0.0269	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.156	JB	0.0362	MDL	5.08	PQL	ng/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: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

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
1,2,3,6,7,8-HXCDF	0.169	JBQ	0.0233	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.151	JB	0.0351	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.162	JB	0.0289	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.222	JB	0.0450	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.324	JB	0.0250	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.111	JBQ	0.0240	MDL	5.08	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.301	JB	0.0249	MDL	5.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0657	J	0.0533	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0889	J	0.0408	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	9.19	JB	0.0400	MDL	10.2	PQL	ng/Kg	J	Z
OCDF	0.372	JQ	0.0524	MDL	10.2	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.389	JBQ	0.0458	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.157	JB	0.0144	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0531	JQ	0.0258	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.138	JQ	0.0376	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.178	JB	0.0270	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.150	JBQ	0.0383	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.142	JBQ	0.0234	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.131	JBQ	0.0382	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.153	JBQ	0.0259	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.315	JBQ	0.0619	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.334	JB	0.0293	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.119	JBQ	0.0243	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.320	JB	0.0278	MDL	5.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.121	J	0.0741	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0977	JQ	0.0489	MDL	1.03	PQL	ng/Kg	J	Z
OCDD	1.95	JB	0.0362	MDL	10.3	PQL	ng/Kg	U	B
OCDF	0.161	JQ	0.0628	MDL	10.3	PQL	ng/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: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,6,7,8-HPCDD	1.57	JB	0.0484	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.271	JBQ	0.0158	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0889	J	0.0316	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.116	JQ	0.0368	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.211	JB	0.0243	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.146	JB	0.0368	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.145	JBQ	0.0213	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.125	JBQ	0.0370	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.124	JB	0.0274	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.126	JBQ	0.0511	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.230	JB	0.0270	MDL	5.39	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0814	JB	0.0232	MDL	5.39	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.224	JBQ	0.0258	MDL	5.39	PQL	ng/Kg	U	B
OCDF	0.654	JQ	0.0621	MDL	10.8	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	2.28	JB	0.0348	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.301	JB	0.0139	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0415	JB	0.0205	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0491	JB	0.0154	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.170	JBQ	0.0246	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0273	JB	0.0135	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.210	JBQ	0.0230	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.113	JBQ	0.0163	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0304	JBQ	0.0181	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0750	JBQ	0.0135	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0322	JBQ	0.0138	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0637	JBQ	0.0138	MDL	5.48	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0246	J	0.0218	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	0.781	JB	0.0285	MDL	11.0	PQL	ng/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: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **GENCHEM**

Method: **1613B** ***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
1,2,3,4,6,7,8-HPCDF	2.46	JB	0.0315	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.491	J	0.0494	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.458	JQ	0.0561	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.353	JB	0.0351	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.537	JBQ	0.0545	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.280	JB	0.0316	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.370	JB	0.0523	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.226	JBQ	0.0343	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.615	JB	0.0524	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.516	JBQ	0.0277	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.264	JB	0.0306	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.464	JB	0.0256	MDL	5.18	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.163	JQ	0.0548	MDL	1.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0808	J	0.0416	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	4.83	J	0.0503	MDL	10.4	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_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

Data Qualifier Summary

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX129

Method Blank Outlier Report

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2340B371734	8/23/2011 5:34:00 PM	1,2,3,4,6,7,8-HPCDD	2.80 pg/L	EB-SA6-SB-081711
		1,2,3,4,6,7,8-HPCDF	0.632 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.512 pg/L	
		1,2,3,4,7,8-HxCDD	0.765 pg/L	
		1,2,3,4,7,8-HXCDF	0.547 pg/L	
		1,2,3,6,7,8-HXCDD	0.856 pg/L	
		1,2,3,6,7,8-HXCDF	0.489 pg/L	
		1,2,3,7,8,9-HXCDD	0.876 pg/L	
		1,2,3,7,8,9-HXCDF	0.588 pg/L	
		1,2,3,7,8-PECDD	0.858 pg/L	
		2,3,4,6,7,8-HXCDF	0.562 pg/L	
		2,3,4,7,8-PECDF	1.02 pg/L	
		OCDD	6.56 pg/L	
		OCDF	2.84 pg/L	

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-081711(RES)	1,2,3,4,6,7,8-HPCDD	2.81 pg/L	2.81U pg/L
EB-SA6-SB-081711(RES)	1,2,3,4,6,7,8-HPCDF	0.562 pg/L	0.562U pg/L
EB-SA6-SB-081711(RES)	1,2,3,4,7,8,9-HPCDF	0.367 pg/L	0.367U pg/L
EB-SA6-SB-081711(RES)	1,2,3,4,7,8-HxCDD	0.405 pg/L	0.405U pg/L
EB-SA6-SB-081711(RES)	1,2,3,6,7,8-HXCDF	0.277 pg/L	0.277U pg/L
EB-SA6-SB-081711(RES)	1,2,3,7,8,9-HXCDD	0.522 pg/L	0.522U pg/L
EB-SA6-SB-081711(RES)	1,2,3,7,8,9-HXCDF	0.316 pg/L	0.316U pg/L
EB-SA6-SB-081711(RES)	1,2,3,7,8-PECDD	0.710 pg/L	0.710U pg/L
EB-SA6-SB-081711(RES)	2,3,4,6,7,8-HXCDF	0.303 pg/L	0.303U pg/L
EB-SA6-SB-081711(RES)	2,3,4,7,8-PECDF	0.740 pg/L	0.740U pg/L
EB-SA6-SB-081711(RES)	OCDD	4.18 pg/L	4.18U pg/L
EB-SA6-SB-081711(RES)	OCDF	0.569 pg/L	0.569U pg/L

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2380B370305	8/30/2011 3:05:00 AM	1,2,3,4,6,7,8-HPCDD	0.236 ng/Kg	DUP12-SA6-QC-081711
		1,2,3,4,6,7,8-HPCDF	0.0494 ng/Kg	SL-007-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0519 ng/Kg	SL-154-SA6-SB-3.0-4.0
		1,2,3,6,7,8-HXCDD	0.0513 ng/Kg	SL-214-SA6-SB-1.0-2.0
		1,2,3,6,7,8-HXCDF	0.0537 ng/Kg	SL-215-SA6-SB-4.0-5.0
		1,2,3,7,8,9-HXCDD	0.0428 ng/Kg	SL-221-SA6-SB-1.0-2.0
		1,2,3,7,8,9-HXCDF	0.0356 ng/Kg	SL-223-SA6-SB-2.5-3.5
		1,2,3,7,8-PECDD	0.0682 ng/Kg	SL-224-SA6-SB-3.0-4.0
		1,2,3,7,8-PECDF	0.0365 ng/Kg	SL-226-SA6-SB-3.5-4.5
		2,3,4,6,7,8-HXCDF	0.0234 ng/Kg	SL-241-SA6-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0544 ng/Kg	SL-241-SA6-SB-9.0-10.0
		OCDD	0.426 ng/Kg	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-315-SA6-SB-3.0-4.0

Method Blank Outlier Report

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2410B372134	8/30/2011 9:34:00 PM	1,2,3,4,6,7,8-HPCDD	0.173 ng/Kg	SL-310-SA6-SB-4.0-5.0
		1,2,3,4,6,7,8-HPCDF	0.0734 ng/Kg	
		1,2,3,4,7,8,9-HPCDF	0.0294 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0282 ng/Kg	
		1,2,3,4,7,8-HXCDF	0.0284 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0221 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0303 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0198 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0230 ng/Kg	
		1,2,3,7,8-PECDD	0.0366 ng/Kg	
		1,2,3,7,8-PECDF	0.0276 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0245 ng/Kg	
		2,3,4,7,8-PECDF	0.0636 ng/Kg	
		OCDD	0.349 ng/Kg	
		OCDF	0.0879 ng/Kg	

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
DUP12-SA6-QC-081711(RES)	1,2,3,4,6,7,8-HPCDD	0.310 ng/Kg	0.310U ng/Kg
DUP12-SA6-QC-081711(RES)	1,2,3,4,6,7,8-HPCDF	0.156 ng/Kg	0.156U ng/Kg
DUP12-SA6-QC-081711(RES)	1,2,3,6,7,8-HXCDD	0.244 ng/Kg	0.244U ng/Kg
DUP12-SA6-QC-081711(RES)	OCDD	0.299 ng/Kg	0.299U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.382 ng/Kg	0.382U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0307 ng/Kg	0.0307U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0301 ng/Kg	0.0301U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0292 ng/Kg	0.0292U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.0723 ng/Kg	0.0723U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0295 ng/Kg	0.0295U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0293 ng/Kg	0.0293U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0537 ng/Kg	0.0537U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDD	0.443 ng/Kg	0.443U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDF	0.133 ng/Kg	0.133U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8-HXCDF	0.210 ng/Kg	0.210U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDD	0.142 ng/Kg	0.142U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDF	0.186 ng/Kg	0.186U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDF	0.137 ng/Kg	0.137U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,7,8-PECDD	0.212 ng/Kg	0.212U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	2,3,4,6,7,8-HXCDF	0.0933 ng/Kg	0.0933U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	OCDD	1.07 ng/Kg	1.07U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0803 ng/Kg	0.0803U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.193 ng/Kg	0.193U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0649 ng/Kg	0.0649U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.212 ng/Kg	0.212U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0339 ng/Kg	0.0339U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0891 ng/Kg	0.0891U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0542 ng/Kg	0.0542U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0727 ng/Kg	0.0727U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDF	0.170 ng/Kg	0.170U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-221-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8-HXCDF	0.0420 ng/Kg	0.0420U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDD	0.102 ng/Kg	0.102U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDF	0.0361 ng/Kg	0.0361U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDD	0.0801 ng/Kg	0.0801U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDF	0.0409 ng/Kg	0.0409U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	2,3,4,6,7,8-HXCDF	0.0302 ng/Kg	0.0302U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	2,3,4,7,8-PECDF	0.0437 ng/Kg	0.0437U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.358 ng/Kg	0.358U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0574 ng/Kg	0.0574U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.0303 ng/Kg	0.0303U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.0970 ng/Kg	0.0970U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.0868 ng/Kg	0.0868U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.0875 ng/Kg	0.0875U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.0888 ng/Kg	0.0888U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.131 ng/Kg	0.131U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0332 ng/Kg	0.0332U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.0949 ng/Kg	0.0949U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0312 ng/Kg	0.0312U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0298 ng/Kg	0.0298U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	OCDD	0.263 ng/Kg	0.263U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.946 ng/Kg	0.946U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.219 ng/Kg	0.219U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8-HXCDF	0.196 ng/Kg	0.196U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDD	0.230 ng/Kg	0.230U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDF	0.189 ng/Kg	0.189U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.229 ng/Kg	0.229U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.282 ng/Kg	0.282U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0463 ng/Kg	0.0463U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0506 ng/Kg	0.0506U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0570 ng/Kg	0.0570U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0240 ng/Kg	0.0240U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0388 ng/Kg	0.0388U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0320 ng/Kg	0.0320U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0225 ng/Kg	0.0225U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0267 ng/Kg	0.0267U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0522 ng/Kg	0.0522U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	OCDD	1.56 ng/Kg	1.56U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.283 ng/Kg	0.283U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0462 ng/Kg	0.0462U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0239 ng/Kg	0.0239U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-241-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0483 ng/Kg	0.0483U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0221 ng/Kg	0.0221U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0861 ng/Kg	0.0861U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	OCDD	0.480 ng/Kg	0.480U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,4,8,7,8-HPCDD	0.315 ng/Kg	0.315U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0498 ng/Kg	0.0498U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0257 ng/Kg	0.0257U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.114 ng/Kg	0.114U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0239 ng/Kg	0.0239U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0640 ng/Kg	0.0640U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0301 ng/Kg	0.0301U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0342 ng/Kg	0.0342U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.365 ng/Kg	0.365U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.122 ng/Kg	0.122U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0763 ng/Kg	0.0763U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0837 ng/Kg	0.0837U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0473 ng/Kg	0.0473U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0946 ng/Kg	0.0946U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0529 ng/Kg	0.0529U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0885 ng/Kg	0.0885U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0765 ng/Kg	0.0765U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.170 ng/Kg	0.170U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	OCDD	1.41 ng/Kg	1.41U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDD	0.969 ng/Kg	0.969U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDF	0.168 ng/Kg	0.168U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8-HXCDF	0.196 ng/Kg	0.196U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDD	0.156 ng/Kg	0.156U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDF	0.169 ng/Kg	0.169U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDD	0.151 ng/Kg	0.151U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDF	0.162 ng/Kg	0.162U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,7,8-PECDD	0.222 ng/Kg	0.222U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	2,3,4,6,7,8-HXCDF	0.111 ng/Kg	0.111U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.389 ng/Kg	0.389U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.157 ng/Kg	0.157U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.178 ng/Kg	0.178U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.150 ng/Kg	0.150U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.142 ng/Kg	0.142U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.131 ng/Kg	0.131U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.153 ng/Kg	0.153U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.315 ng/Kg	0.315U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-4.0-5.0(RES)	OCDD	1.95 ng/Kg	1.95U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.211 ng/Kg	0.211U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.146 ng/Kg	0.146U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.145 ng/Kg	0.145U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.125 ng/Kg	0.125U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.124 ng/Kg	0.124U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.126 ng/Kg	0.126U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0814 ng/Kg	0.0814U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.224 ng/Kg	0.224U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.301 ng/Kg	0.301U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0415 ng/Kg	0.0415U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0491 ng/Kg	0.0491U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0273 ng/Kg	0.0273U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.113 ng/Kg	0.113U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0304 ng/Kg	0.0304U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0750 ng/Kg	0.0750U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0322 ng/Kg	0.0322U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0637 ng/Kg	0.0637U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_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: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-224-SA6-SB-3.0-4.0	DUP12-SA6-QC-081711			
OCDD	0.263	0.299	13	50.00	No Qualifiers Applied
OCDF	0.133	0.208	44	50.00	
1,2,3,4,6,7,8-HPCDD	0.131	0.310	81	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,6,7,8-HPCDF	0.0332	0.156	130	50.00	
1,2,3,4,7,8-HxCDD	5.26 U	0.230	200	50.00	
1,2,3,4,7,8-HXCDF	5.26 U	0.339	200	50.00	
1,2,3,6,7,8-HXCDD	5.26 U	0.244	200	50.00	
1,2,3,6,7,8-HXCDF	5.26 U	0.344	200	50.00	
1,2,3,7,8,9-HXCDD	0.0949	0.230	83	50.00	
1,2,3,7,8,9-HXCDF	5.26 U	0.229	200	50.00	
1,2,3,7,8-PECDD	5.26 U	0.483	200	50.00	
1,2,3,7,8-PECDF	0.0312	0.585	180	50.00	
2,3,4,6,7,8-HXCDF	5.26 U	0.190	200	50.00	
2,3,4,7,8-PECDF	0.0298	0.442	175	50.00	
2,3,7,8-TCDD	1.05 U	0.0807	200	50.00	
2,3,7,8-TCDF	1.05 U	0.110	200	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX129 Laboratory: LL

EDD Filename: DX129_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-081711	1,2,3,4,6,7,8-HPCDD	JBQ	2.81	9.56	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.562	9.56	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.367	9.56	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.405	9.56	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.277	9.56	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.522	9.56	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.316	9.56	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.710	9.56	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.303	9.56	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.740	9.56	PQL	pg/L	
	OCDD	JBQ	4.18	19.1	PQL	pg/L	
	OCDF	JBQ	0.569	19.1	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP12-SA6-QC-081711	1,2,3,4,6,7,8-HPCDD	JBQ	0.310	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.156	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.230	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.339	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.244	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.344	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.230	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.229	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.483	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.585	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.190	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.442	5.30	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0807	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.110	1.06	PQL	ng/Kg	
	OCDD	JBQ	0.299	10.6	PQL	ng/Kg	
	OCDF	J	0.208	10.6	PQL	ng/Kg	
SL-007-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.19	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	J	1.57	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.304	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.739	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.15	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.621	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	2.04	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.94	5.55	PQL	ng/Kg	
	OCDF	J	4.88	11.1	PQL	ng/Kg	
SL-154-SA6-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.382	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0307	5.24	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0300	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0301	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0292	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0723	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0295	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0293	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0537	5.24	PQL	ng/Kg	
	OCDD	JB	4.14	10.5	PQL	ng/Kg	
	OCDF	JQ	0.0760	10.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-214-SA6-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDD	JB	0.443	5.34	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.133	5.34	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0450	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.159	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.210	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.142	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.186	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.229	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.137	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.212	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0933	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.313	5.34	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0910	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0765	1.07	PQL	ng/Kg	
	OCDD	JB	1.07	10.7	PQL	ng/Kg	
SL-215-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	3.27	5.53	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.539	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0675	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.119	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0803	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.193	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0649	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.212	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0339	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0891	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0542	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0727	5.53	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0689	1.11	PQL	ng/Kg	
	OCDF	JQ	1.81	11.1	PQL	ng/Kg	
SL-221-SA6-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDD	JBQ	2.06	5.29	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.170	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0420	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.102	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0361	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.0801	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0409	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0302	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0437	5.29	PQL	ng/Kg	
	OCDF	JQ	0.512	10.6	PQL	ng/Kg	
SL-223-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	0.358	5.00	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0574	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0303	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0970	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0868	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0875	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0888	5.00	PQL	ng/Kg	
	OCDD	JB	2.16	10.0	PQL	ng/Kg	
	OCDF	JQ	0.367	10.0	PQL	ng/Kg	
SL-224-SA6-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.131	5.26	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0332	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0949	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0312	5.26	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JBQ	0.0298	5.26	PQL	ng/Kg	
	OCDD	JBQ	0.263	10.5	PQL	ng/Kg	
	OCDF	JQ	0.133	10.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-226-SA6-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JB	0.946	5.18	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.219	5.18	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.0948	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.165	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.196	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.230	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.189	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.233	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.225	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.229	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.344	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.128	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.314	5.18	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.170	1.04	PQL	ng/Kg	
	OCDF	J	0.539	10.4	PQL	ng/Kg	
SL-241-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.282	5.21	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0463	5.21	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.0399	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0506	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0570	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0240	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0388	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0320	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0225	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0267	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0522	5.21	PQL	ng/Kg	
	OCDD	JB	1.56	10.4	PQL	ng/Kg	
	OCDF	J	0.107	10.4	PQL	ng/Kg	
SL-241-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.283	5.37	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0462	5.37	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0313	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0239	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0483	5.37	PQL	ng/Kg	J (all detects)
	2,3,4,6,7,8-HXCDF	JBQ	0.0221	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0861	5.37	PQL	ng/Kg	
	OCDD	JB	0.480	10.7	PQL	ng/Kg	
	OCDF	JQ	0.147	10.7	PQL	ng/Kg	
SL-242-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.315	5.29	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0498	5.29	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0427	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0257	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.114	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0239	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.218	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.216	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0640	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0301	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0342	5.29	PQL	ng/Kg	
	OCDD	JB	2.25	10.6	PQL	ng/Kg	
	OCDF	JQ	0.100	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-242-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.365	5.25	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.122	5.25	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0507	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0342	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0763	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0837	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0473	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0946	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0529	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0885	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.195	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0765	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.170	5.25	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0834	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0563	1.05	PQL	ng/Kg	
	OCDD	JB	1.41	10.5	PQL	ng/Kg	
	OCDF	JQ	0.166	10.5	PQL	ng/Kg	
SL-279-SA6-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDD	JB	0.969	5.08	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.166	5.08	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.0667	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0900	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.196	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.156	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.169	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.151	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.162	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.222	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.324	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.111	5.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.301	5.08	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0657	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0889	1.02	PQL	ng/Kg	
	OCDD	JB	9.19	10.2	PQL	ng/Kg	
	OCDF	JQ	0.372	10.2	PQL	ng/Kg	
SL-279-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.389	5.13	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.157	5.13	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0531	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.138	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.178	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.150	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.142	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.131	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.153	5.13	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.315	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.334	5.13	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.119	5.13	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.320	5.13	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.121	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0977	1.03	PQL	ng/Kg	
	OCDD	JB	1.95	10.3	PQL	ng/Kg	
	OCDF	JQ	0.161	10.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX129 **Laboratory: LL**

EDD Filename: DX129_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-279-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.57	5.39	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.271	5.39	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.0889	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.116	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.211	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.146	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.145	5.39	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.125	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.124	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.126	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.230	5.39	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0814	5.39	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.224	5.39	PQL	ng/Kg	
	OCDF	JQ	0.654	10.8	PQL	ng/Kg	
SL-310-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.28	5.48	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.301	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0415	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0491	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.170	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0273	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.210	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.113	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0304	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0750	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0322	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0637	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0246	1.10	PQL	ng/Kg	
	OCDF	JB	0.781	11.0	PQL	ng/Kg	
SL-315-SA6-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDF	JB	2.46	5.18	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.491	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.458	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.353	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.537	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.280	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.370	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.226	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.615	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.516	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.264	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.464	5.18	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.163	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0808	1.04	PQL	ng/Kg	
	OCDF	J	4.83	10.4	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX130

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	SL-030-SA6-SB-4.0-5.0	6385543	N	METHOD	1613B	III
23-Aug-2011	SL-030-SA6-SB-9.0-10.0	6385544	N	METHOD	1613B	III
23-Aug-2011	SL-035-SA6-SB-2.5-3.5	6385545	N	METHOD	1613B	III
23-Aug-2011	EB-SA6-SB-082311	6385547	EB	METHOD	1613B	III
23-Aug-2011	SL-040-SA6-SB-4.0-5.0	6385546	N	METHOD	1613B	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0	6387049	N	METHOD	1613B	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0	6387050	N	METHOD	1613B	III
24-Aug-2011	SL-208-SA6-SB-4.0-5.0	6387051	N	METHOD	1613B	III
24-Aug-2011	EB-SA6-SB-082411	6387052	EB	METHOD	1613B	III
25-Aug-2011	SL-246-SA6-SB-4.0-5.0	6388749	N	METHOD	1613B	III
25-Aug-2011	SL-041-SA6-SB-3.0-4.0	6388747	N	METHOD	1613B	III
25-Aug-2011	SL-257-SA6-SB-1.5-2.5	6388751	N	METHOD	1613B	III
25-Aug-2011	SL-195-SA6-SB-1.0-2.0	6388748	N	METHOD	1613B	III
25-Aug-2011	SL-247-SA6-SB-4.0-5.0	6388750	N	METHOD	1613B	III
26-Aug-2011	SL-252-SA6-SB-4.0-5.0	6389728	N	METHOD	1613B	III
26-Aug-2011	SL-252-SA6-SB-4.0-5.0MS	6389729	MS	METHOD	1613B	III
26-Aug-2011	SL-252-SA6-SB-4.0-5.0MSD	6389730	MSD	METHOD	1613B	III
26-Aug-2011	DUP13-SA6-QC-082611	6389734	FD	METHOD	1613B	III
26-Aug-2011	SL-291-SA6-SB-2.0-3.0	6389726	N	METHOD	1613B	III
26-Aug-2011	SL-250-SA6-SB-3.0-4.0	6389727	N	METHOD	1613B	III
26-Aug-2011	SL-256-SA6-SB-2.5-3.5	6389731	N	METHOD	1613B	III
26-Aug-2011	SL-113-SA6-SB-4.0-5.0	6389732	N	METHOD	1613B	III
26-Aug-2011	SL-113-SA6-SB-7.0-8.0	6389733	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX130 Laboratory: LL

EDD Filename: DX130_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,6,7,8-HPCDD	3.48	JB	0.814	MDL	9.95	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.35	JB	0.381	MDL	9.95	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.961	JBQ	0.427	MDL	9.95	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.623	JBQ	0.520	MDL	9.95	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.402	JB	0.370	MDL	9.95	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.554	JQ	0.325	MDL	9.95	PQL	pg/L	J	Z
2,3,4,7,8-PECDF	0.643	JBQ	0.338	MDL	9.95	PQL	pg/L	U	B
OCDD	4.48	JB	0.603	MDL	19.9	PQL	pg/L	U	B
OCDF	2.93	JB	0.876	MDL	19.9	PQL	pg/L	U	B

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
1,2,3,4,6,7,8-HPCDD	3.67	JBQ	0.541	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.64	JB	0.253	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.489	JBQ	0.311	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.320	JB	0.258	MDL	10.3	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.632	JBQ	0.376	MDL	10.3	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.522	JBQ	0.264	MDL	10.3	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.442	JBQ	0.265	MDL	10.3	PQL	pg/L	U	B
OCDD	7.16	JB	0.438	MDL	20.7	PQL	pg/L	U	B
OCDF	2.09	JB	0.745	MDL	20.7	PQL	pg/L	U	B

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,6,7,8-HPCDD	270	B	0.154	MDL	5.11	PQL	ng/Kg	J	FD
1,2,3,4,6,7,8-HPCDF	63.2	B	0.0848	MDL	5.11	PQL	ng/Kg	J	FD
1,2,3,4,7,8-HxCDD	2.64	JB	0.106	MDL	5.11	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	28.9	B	0.127	MDL	5.11	PQL	ng/Kg	J	FD
1,2,3,6,7,8-HXCDD	11.5	B	0.108	MDL	5.11	PQL	ng/Kg	J	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX130 Laboratory: LL

EDD Filename: DX130_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,7,8,9-HXCDD	5.65	B	0.0959	MDL	5.11	PQL	ng/Kg	J	FD
1,2,3,7,8,9-HXCDF	8.87	B	0.124	MDL	5.11	PQL	ng/Kg	J	FD
1,2,3,7,8-PECDD	0.161	U	0.161	MDL	5.11	PQL	ng/Kg	UJ	FD
2,3,4,7,8-PECDF	9.42	B	0.245	MDL	5.11	PQL	ng/Kg	J	FD
2,3,7,8-TCDD	0.134	J	0.0372	MDL	1.02	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	4.76	C	0.651	MDL	1.02	PQL	ng/Kg	J	FD
OCDD	3690	B	0.0932	MDL	10.2	PQL	ng/Kg	J	FD
OCDF	109	B	0.0461	MDL	10.2	PQL	ng/Kg	J	FD

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
1,2,3,4,7,8-HXCDF	5.38	JB	0.162	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.07	JB	0.155	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	3.09	JB	0.288	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.69	JB	0.0759	MDL	5.50	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.33	JB	0.0718	MDL	5.50	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.777	J	0.116	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.850	J	0.108	MDL	1.10	PQL	ng/Kg	J	Z

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
1,2,3,4,7,8-HXCDF	4.51	JB	0.165	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.900	JB	0.169	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	4.89	JB	0.311	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.35	JB	0.0900	MDL	5.81	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.11	JB	0.0930	MDL	5.81	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	1.06	J	0.0829	MDL	1.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.687	J	0.120	MDL	1.16	PQL	ng/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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.05	JBQ	0.115	MDL	5.10	PQL	ng/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: DX130 **Laboratory: LL**

EDD Filename: DX130_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,7,8-HxCDD	0.761	JB	0.0802	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.365	JB	0.0504	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.33	JB	0.0829	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.437	JB	0.0469	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.699	JB	0.0755	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.111	JB	0.0534	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.134	JB	0.0241	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.225	JB	0.0190	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.526	JB	0.0476	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.210	JB	0.0197	MDL	5.10	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0353	J	0.0170	MDL	1.02	PQL	ng/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
1,2,3,4,6,7,8-HPCDF	1.99	JB	0.0414	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.226	JBQ	0.0572	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0597	JB	0.0400	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.180	JBQ	0.0382	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.280	JB	0.0406	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.100	JB	0.0344	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.163	JB	0.0371	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0820	JB	0.0376	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0425	JBQ	0.0252	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.371	JB	0.0215	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.125	JB	0.0377	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.163	JB	0.0201	MDL	5.08	PQL	ng/Kg	U	B
OCDF	4.51	JB	0.0258	MDL	10.2	PQL	ng/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
1,2,3,4,6,7,8-HPCDF	0.976	JB	0.0157	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0607	JBQ	0.0215	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.106	JB	0.0439	MDL	5.14	PQL	ng/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: DX130 **Laboratory:** LL

EDD Filename: DX130_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,7,8-HXCDF	0.0852	JB	0.0279	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.456	JB	0.0438	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.125	JB	0.0253	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.360	JB	0.0408	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.157	JB	0.0287	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0636	JBQ	0.0169	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0773	JBQ	0.0120	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0659	JB	0.0267	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.100	JB	0.0117	MDL	5.14	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0180	JQ	0.0168	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0238	JQ	0.0222	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	1.34	JB	0.0252	MDL	10.3	PQL	ng/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
1,2,3,4,6,7,8-HPCDF	1.37	JB	0.0363	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.251	JB	0.0457	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.135	JBQ	0.0327	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.148	JB	0.0267	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.369	JB	0.0332	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.122	JB	0.0248	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.160	JB	0.0324	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.124	JB	0.0255	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.144	JB	0.0174	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.177	JB	0.0120	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.134	JB	0.0249	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.186	JB	0.0112	MDL	5.18	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0526	J	0.0156	MDL	1.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0468	JQ	0.0154	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	3.20	JB	0.0224	MDL	10.4	PQL	ng/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: DX130 **Laboratory:** LL

EDD Filename: DX130_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,7,8,9-HPCDF	2.98	JB	0.0717	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	4.64	JB	0.0735	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.941	JB	0.0520	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.831	JB	0.0495	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.82	JB	0.0684	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.236	JB	0.0188	MDL	5.23	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.977	JB	0.0487	MDL	5.23	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.312	JB	0.0178	MDL	5.23	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.319	J	0.0178	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0679	J	0.0261	MDL	1.05	PQL	ng/Kg	J	Z

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
1,2,3,4,7,8,9-HPCDF	0.769	JB	0.0610	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.08	JB	0.0676	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.282	JB	0.0335	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.79	JB	0.0673	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.227	JB	0.0313	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.43	JB	0.0632	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0656	JB	0.0323	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.413	JB	0.0264	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0641	JBQ	0.0110	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.274	JB	0.0313	MDL	5.30	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0638	JB	0.0109	MDL	5.30	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0418	JQ	0.0132	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0211	J	0.0145	MDL	1.06	PQL	ng/Kg	J	Z

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
1,2,3,4,6,7,8-HPCDD	1.04	JB	0.0406	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.326	JB	0.0134	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0404	JB	0.0192	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0297	JBQ	0.0201	MDL	5.16	PQL	ng/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: DX130 **Laboratory:** LL

EDD Filename: DX130_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,7,8-HXCDF	0.111	JB	0.0209	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.135	JB	0.0214	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0546	JBQ	0.0189	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.124	JBQ	0.0185	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.108	JB	0.0209	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0264	JB	0.0169	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.188	JB	0.0209	MDL	5.16	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0924	JB	0.0186	MDL	5.16	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.504	JB	0.0218	MDL	5.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0478	JQ	0.0452	MDL	1.03	PQL	ng/Kg	J	Z
OCDD	7.21	JB	0.0248	MDL	10.3	PQL	ng/Kg	J	Z
OCDF	0.556	JB	0.0200	MDL	10.3	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.643	JB	0.0274	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.207	JB	0.0171	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0817	JB	0.0228	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.137	JB	0.0263	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.234	JB	0.0225	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.188	JB	0.0265	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.215	JB	0.0202	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.246	JB	0.0232	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.246	JB	0.0219	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.275	JB	0.0219	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.382	JB	0.0149	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.134	JBQ	0.0211	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.329	JB	0.0143	MDL	5.42	PQL	ng/Kg	J	Z
OCDD	3.67	JB	0.0239	MDL	10.8	PQL	ng/Kg	J	Z
OCDF	0.239	JB	0.0236	MDL	10.8	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX130 Laboratory: LL

EDD Filename: DX130_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,7,8,9-HPCDF	0.568	JB	0.0392	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.256	JB	0.0566	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.253	JB	0.0479	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.989	JB	0.0571	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.302	JB	0.0427	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.566	JB	0.0564	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.148	JB	0.0453	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.138	JB	0.0223	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.118	JB	0.0126	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.450	JB	0.0423	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.126	JB	0.0131	MDL	5.42	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0339	J	0.0166	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0271	J	0.0184	MDL	1.08	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	1.26	JB	0.0698	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.37	JB	0.111	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.853	JB	0.0625	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.07	JB	0.109	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.638	JB	0.0546	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.24	JB	0.110	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.452	JB	0.0633	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.499	JB	0.0521	MDL	5.46	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.903	JB	0.0608	MDL	5.46	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.386	JB	0.0426	MDL	5.46	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0612	J	0.0168	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.349	J	0.0673	MDL	1.09	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.307	JB	0.0177	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0487	JB	0.00585	MDL	5.32	PQL	ng/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: DX130 **Laboratory:** LL

EDD Filename: DX130_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

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
1,2,3,4,7,8,9-HPCDF	0.0151	JBQ	0.00845	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0264	JB	0.00813	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0243	JB	0.0139	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.00778	JBQ	0.00726	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0213	JB	0.0129	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0144	JBQ	0.00878	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0155	JBQ	0.0108	MDL	5.32	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0107	JBQ	0.00715	MDL	5.32	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0312	JB	0.0101	MDL	5.32	PQL	ng/Kg	U	B
OCDD	1.32	JB	0.0321	MDL	10.6	PQL	ng/Kg	U	B
OCDF	0.103	JBQ	0.0153	MDL	10.6	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	1.60	JB	0.0623	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.876	JB	0.0759	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.50	JB	0.0859	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.28	JB	0.0783	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.22	JB	0.0821	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.71	JB	0.0784	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.373	JB	0.0820	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.557	JB	0.0440	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.13	JB	0.0832	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.83	JB	0.0925	MDL	5.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.119	J	0.0177	MDL	1.02	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	2210	EB	0.468	MDL	5.26	PQL	ng/Kg	J	FD
1,2,3,4,6,7,8-HPCDF	214	B	0.165	MDL	5.26	PQL	ng/Kg	J	Q, FD
1,2,3,4,7,8-HxCDD	7.11	B	0.185	MDL	5.26	PQL	ng/Kg	J	FD
1,2,3,4,7,8-HXCDF	17.0	B	0.187	MDL	5.26	PQL	ng/Kg	J	FD
1,2,3,6,7,8-HXCDD	56.2	B	0.193	MDL	5.26	PQL	ng/Kg	J	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX130 **Laboratory:** LL

EDD Filename: DX130_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

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
1,2,3,7,8,9-HXCDD	20.6	B	0.177	MDL	5.26	PQL	ng/Kg	J	FD
1,2,3,7,8,9-HXCDF	0.201	U	0.201	MDL	5.26	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDD	3.95	JB	0.224	MDL	5.26	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	5.56	B	0.222	MDL	5.26	PQL	ng/Kg	J	FD
2,3,7,8-TCDD	0.727	J	0.0748	MDL	1.05	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	8.25	C	0.600	MDL	1.05	PQL	ng/Kg	J	FD
OCDD	26000	EB	0.246	MDL	10.5	PQL	ng/Kg	J	FD
OCDF	452	B	0.0709	MDL	10.5	PQL	ng/Kg	J	Q, 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
1,2,3,4,6,7,8-HPCDD	3.70	JB	0.0281	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.01	JB	0.0184	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.124	JB	0.0292	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0829	JB	0.0318	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.133	JB	0.0266	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.439	JB	0.0333	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.155	JB	0.0238	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.422	JB	0.0314	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.158	JB	0.0284	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0719	JBQ	0.0168	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.146	JB	0.0130	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.120	JB	0.0237	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.181	JB	0.0128	MDL	5.31	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0159	J	0.0142	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0601	J	0.0255	MDL	1.06	PQL	ng/Kg	J	Z
OCDF	1.95	JB	0.0260	MDL	10.6	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	0.465	JB	0.0493	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.525	JB	0.0874	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.635	JB	0.0566	MDL	5.17	PQL	ng/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: DX130 **Laboratory:** LL

EDD Filename: DX130_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

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
1,2,3,6,7,8-HXCDD	1.47	JB	0.0857	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.314	JB	0.0527	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.885	JB	0.0781	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.125	JB	0.0601	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.236	JB	0.0353	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.367	JB	0.0547	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.366	JB	0.0850	MDL	5.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.512	J	0.110	MDL	1.03	PQL	ng/Kg	J	Z

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
1,2,3,4,7,8,9-HPCDF	2.05	JB	0.0683	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.55	JB	0.0798	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.80	JB	0.112	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.92	JB	0.0733	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.687	JB	0.110	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.971	JB	0.0933	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.59	JB	0.110	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.36	JB	0.151	MDL	5.04	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX130 **Laboratory: LL**

EDD Filename: DX130_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DX130 **Laboratory: LL**

EDD Filename: DX130_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

Data Qualifier Summary

Lab Reporting Batch ID: DX130 **Laboratory: LL**

EDD Filename: DX130_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DX130

Method Blank Outlier Report

Lab Reporting Batch ID: DX130 **Laboratory: LL**

EDD Filename: DX130_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2410B372003	9/1/2011 8:03:00 PM	1,2,3,4,6,7,8-HPCDD	2.36 pg/L	EB-SA6-SB-082311
		1,2,3,4,6,7,8-HPCDF	1.16 pg/L	EB-SA6-SB-082411
		1,2,3,4,7,8,9-HPCDF	0.324 pg/L	
		1,2,3,4,7,8-HxCDD	0.491 pg/L	
		1,2,3,4,7,8-HXCDF	0.365 pg/L	
		1,2,3,6,7,8-HXCDD	0.571 pg/L	
		1,2,3,6,7,8-HXCDF	0.454 pg/L	
		1,2,3,7,8,9-HXCDD	0.726 pg/L	
		1,2,3,7,8,9-HXCDF	0.623 pg/L	
		1,2,3,7,8-PECDD	0.618 pg/L	
		1,2,3,7,8-PECDF	0.451 pg/L	
		2,3,4,7,8-PECDF	0.691 pg/L	
		OCDD	5.87 pg/L	
		OCDF	1.28 pg/L	

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(RES)	1,2,3,4,6,7,8-HPCDD	3.48 pg/L	3.48U pg/L
EB-SA6-SB-082311(RES)	1,2,3,4,6,7,8-HPCDF	1.35 pg/L	1.35U pg/L
EB-SA6-SB-082311(RES)	1,2,3,4,7,8-HXCDF	0.961 pg/L	0.961U pg/L
EB-SA6-SB-082311(RES)	1,2,3,6,7,8-HXCDD	0.623 pg/L	0.623U pg/L
EB-SA6-SB-082311(RES)	1,2,3,7,8,9-HXCDF	0.402 pg/L	0.402U pg/L
EB-SA6-SB-082311(RES)	2,3,4,7,8-PECDF	0.643 pg/L	0.643U pg/L
EB-SA6-SB-082311(RES)	OCDD	4.48 pg/L	4.48U pg/L
EB-SA6-SB-082311(RES)	OCDF	2.93 pg/L	2.93U pg/L
EB-SA6-SB-082411(RES)	1,2,3,4,6,7,8-HPCDD	3.67 pg/L	3.67U pg/L
EB-SA6-SB-082411(RES)	1,2,3,4,6,7,8-HPCDF	2.64 pg/L	2.64U pg/L
EB-SA6-SB-082411(RES)	1,2,3,4,7,8,9-HPCDF	0.489 pg/L	0.489U pg/L
EB-SA6-SB-082411(RES)	1,2,3,4,7,8-HXCDF	0.320 pg/L	0.320U pg/L
EB-SA6-SB-082411(RES)	1,2,3,7,8,9-HXCDD	0.632 pg/L	0.632U pg/L
EB-SA6-SB-082411(RES)	1,2,3,7,8,9-HXCDF	0.522 pg/L	0.522U pg/L
EB-SA6-SB-082411(RES)	2,3,4,7,8-PECDF	0.442 pg/L	0.442U pg/L
EB-SA6-SB-082411(RES)	OCDD	7.16 pg/L	7.16U pg/L
EB-SA6-SB-082411(RES)	OCDF	2.09 pg/L	2.09U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX130 **Laboratory: LL**

EDD Filename: DX130_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2410B372134	8/30/2011 9:34:00 PM	1,2,3,4,6,7,8-HPCDD	0.173 ng/Kg	DUP13-SA6-QC-082611
		1,2,3,4,6,7,8-HPCDF	0.0734 ng/Kg	SL-030-SA6-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0294 ng/Kg	SL-030-SA6-SB-9.0-10.0
		1,2,3,4,7,8-HxCDD	0.0282 ng/Kg	SL-035-SA6-SB-2.5-3.5
		1,2,3,4,7,8-HXCDF	0.0284 ng/Kg	SL-040-SA6-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0221 ng/Kg	SL-041-SA6-SB-3.0-4.0
		1,2,3,6,7,8-HXCDF	0.0303 ng/Kg	SL-066-SA6-SB-2.0-3.0
		1,2,3,7,8,9-HXCDD	0.0198 ng/Kg	SL-113-SA6-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0230 ng/Kg	SL-113-SA6-SB-7.0-8.0
		1,2,3,7,8-PECDD	0.0366 ng/Kg	SL-195-SA6-SB-1.0-2.0
		1,2,3,7,8-PECDF	0.0276 ng/Kg	SL-197-SA6-SB-4.0-5.0
		2,3,4,6,7,8-HXCDF	0.0245 ng/Kg	SL-208-SA6-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0636 ng/Kg	SL-246-SA6-SB-4.0-5.0
		OCDD	0.349 ng/Kg	SL-247-SA6-SB-4.0-5.0
		OCDF	0.0879 ng/Kg	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-257-SA6-SB-1.5-2.5
				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
SL-035-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.111 ng/Kg	0.111U ng/Kg
SL-035-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.134 ng/Kg	0.134U ng/Kg
SL-035-SA6-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.210 ng/Kg	0.210U ng/Kg
SL-040-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0597 ng/Kg	0.0597U ng/Kg
SL-040-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.100 ng/Kg	0.100U ng/Kg
SL-040-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0820 ng/Kg	0.0820U ng/Kg
SL-040-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0425 ng/Kg	0.0425U ng/Kg
SL-040-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.163 ng/Kg	0.163U ng/Kg
SL-041-SA6-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0607 ng/Kg	0.0607U ng/Kg
SL-041-SA6-SB-3.0-4.0(RES)	1,2,3,4,7,8-HxCDD	0.106 ng/Kg	0.106U ng/Kg
SL-041-SA6-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0852 ng/Kg	0.0852U ng/Kg
SL-041-SA6-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.125 ng/Kg	0.125U ng/Kg
SL-041-SA6-SB-3.0-4.0(RES)	1,2,3,7,8-PECDD	0.0636 ng/Kg	0.0636U ng/Kg
SL-041-SA6-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0773 ng/Kg	0.0773U ng/Kg
SL-041-SA6-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0659 ng/Kg	0.0659U ng/Kg
SL-041-SA6-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.100 ng/Kg	0.100U ng/Kg
SL-066-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.135 ng/Kg	0.135U ng/Kg
SL-066-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.122 ng/Kg	0.122U ng/Kg
SL-066-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.144 ng/Kg	0.144U ng/Kg
SL-066-SA6-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.186 ng/Kg	0.186U ng/Kg
SL-113-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.312 ng/Kg	0.312U ng/Kg
SL-113-SA6-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDF	0.0656 ng/Kg	0.0658U ng/Kg
SL-113-SA6-SB-7.0-8.0(RES)	1,2,3,7,8-PECDF	0.0641 ng/Kg	0.0641U ng/Kg
SL-113-SA6-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.0638 ng/Kg	0.0638U ng/Kg
SL-195-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDF	0.326 ng/Kg	0.326U ng/Kg
SL-195-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0404 ng/Kg	0.0404U ng/Kg
SL-195-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8-HxCDD	0.0297 ng/Kg	0.0297U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX130 **Laboratory: LL**

EDD Filename: DX130_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-195-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8-HXCDF	0.111 ng/Kg	0.111U ng/Kg
SL-195-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDF	0.0546 ng/Kg	0.0546U ng/Kg
SL-195-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDF	0.108 ng/Kg	0.108U ng/Kg
SL-195-SA6-SB-1.0-2.0(RES)	1,2,3,7,8-PECDD	0.0264 ng/Kg	0.0264U ng/Kg
SL-195-SA6-SB-1.0-2.0(RES)	2,3,4,6,7,8-HXCDF	0.0924 ng/Kg	0.0924U ng/Kg
SL-197-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.643 ng/Kg	0.643U ng/Kg
SL-197-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.207 ng/Kg	0.207U ng/Kg
SL-197-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0817 ng/Kg	0.0817U ng/Kg
SL-197-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.137 ng/Kg	0.137U ng/Kg
SL-197-SA6-SB-4.0-5.0(RES)	OCDF	0.239 ng/Kg	0.239U ng/Kg
SL-208-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.138 ng/Kg	0.138U ng/Kg
SL-208-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.118 ng/Kg	0.118U ng/Kg
SL-208-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.126 ng/Kg	0.126U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.307 ng/Kg	0.307U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0487 ng/Kg	0.0487U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0151 ng/Kg	0.0151U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0264 ng/Kg	0.0264U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0243 ng/Kg	0.0243U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.00778 ng/Kg	0.00778U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0213 ng/Kg	0.0213U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0144 ng/Kg	0.0144U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0155 ng/Kg	0.0155U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0107 ng/Kg	0.0107U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0312 ng/Kg	0.0312U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	OCDD	1.32 ng/Kg	1.32U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	OCDF	0.103 ng/Kg	0.103U ng/Kg
SL-256-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.124 ng/Kg	0.124U ng/Kg
SL-256-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HxCDD	0.0829 ng/Kg	0.0829U ng/Kg
SL-256-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.133 ng/Kg	0.133U ng/Kg
SL-256-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.0719 ng/Kg	0.0719U ng/Kg
SL-256-SA6-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-256-SA6-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.181 ng/Kg	0.181U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX130 **Laboratory: LL**

EDD Filename: DX130_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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 (SL-252-SA6-SB-4.0-5.0)	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF OCDD OCDF	-2059 -97 -12580 -108	-2054 -92 -12592 -104	40.00-135.00 40.00-135.00 40.00-135.00 40.00-135.00	- - - -	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF OCDD OCDF	J (all detects) R (all non-detects) 1,2,3,4,6,7,8-HPCDD, OCDD, No Qual, >4x

Field Duplicate RPD Report

Lab Reporting Batch ID: DX130 | Laboratory: LL

EDD Filename: DX130_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: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-252-SA6-SB-4.0-5.0	DUP13-SA6-QC-082611			
1,2,3,4,7,8,9-HPCDF	19.2	14.2	30	50.00	No Qualifiers Applied
1,2,3,6,7,8-HXCDF	14.1	11.0	25	50.00	
1,2,3,7,8-PECDF	23.9	31.3	27	50.00	
2,3,4,6,7,8-HXCDF	16.7	11.4	38	50.00	
1,2,3,4,6,7,8-HPCDD	2210	270	156	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,6,7,8-HPCDF	214	63.2	109	50.00	
1,2,3,4,7,8-HxCDD	7.11	2.64	92	50.00	
1,2,3,4,7,8-HXCDF	17.0	28.9	52	50.00	
1,2,3,6,7,8-HXCDD	56.2	11.5	132	50.00	
1,2,3,7,8,9-HXCDD	20.6	5.65	114	50.00	
1,2,3,7,8,9-HXCDF	5.26 U	8.87	200	50.00	
1,2,3,7,8-PECDD	3.95	5.11 U	200	50.00	
2,3,4,7,8-PECDF	5.56	9.42	52	50.00	
2,3,7,8-TCDD	0.727	0.134	138	50.00	
2,3,7,8-TCDF	8.25	4.76	54	50.00	
OCDD	26000	3690	150	50.00	
OCDF	452	109	122	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX130 | Laboratory: LL

EDD Filename: DX130_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-082311	1,2,3,4,6,7,8-HPCDD	JB	3.48	9.95	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	1.35	9.95	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.961	9.95	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.623	9.95	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JB	0.402	9.95	PQL	pg/L	J (all detects)
	2,3,4,6,7,8-HXCDF	JQ	0.554	9.95	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.643	9.95	PQL	pg/L	
	OCDD	JB	4.48	19.9	PQL	pg/L	
	OCDF	JB	2.93	19.9	PQL	pg/L	
EB-SA6-SB-082411	1,2,3,4,6,7,8-HPCDD	JBQ	3.67	10.3	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	2.64	10.3	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.489	10.3	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.320	10.3	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.632	10.3	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.522	10.3	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.442	10.3	PQL	pg/L	
	OCDD	JB	7.16	20.7	PQL	pg/L	
	OCDF	JB	2.09	20.7	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA6-QC-082611	1,2,3,4,7,8-HxCDD	JB	2.64	5.11	PQL	ng/Kg	J (all detects)
	2,3,7,8-TCDD	J	0.134	1.02	PQL	ng/Kg	
SL-030-SA6-SB-4.0-5.0	1,2,3,4,7,8-HXCDF	JB	5.38	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.07	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	3.09	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.69	5.50	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JB	2.33	5.50	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.777	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.850	1.10	PQL	ng/Kg	
SL-030-SA6-SB-9.0-10.0	1,2,3,4,7,8-HXCDF	JB	4.51	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.900	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	4.89	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.35	5.81	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JB	2.11	5.81	PQL	ng/Kg	
	2,3,7,8-TCDD	J	1.06	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.687	1.16	PQL	ng/Kg	
SL-035-SA6-SB-2.5-3.5	1,2,3,4,7,8,9-HPCDF	JBQ	1.05	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.761	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.365	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.33	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.437	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.699	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.111	5.10	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.134	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.225	5.10	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.526	5.10	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.210	5.10	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0353	1.02	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX130 **Laboratory: LL**

EDD Filename: DX130_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-040-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.99	5.08	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.226	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0597	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.180	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.280	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.100	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.163	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0820	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0425	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.371	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.125	5.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.163	5.08	PQL	ng/Kg	
	OCDF	JB	4.51	10.2	PQL	ng/Kg	
SL-041-SA6-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDF	JB	0.976	5.14	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0607	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.106	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0852	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.456	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.125	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.360	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.157	5.14	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0636	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0773	5.14	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0659	5.14	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.100	5.14	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0180	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0238	1.03	PQL	ng/Kg	
	OCDF	JB	1.34	10.3	PQL	ng/Kg	
SL-066-SA6-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDF	JB	1.37	5.18	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.251	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.135	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.148	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.369	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.122	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.160	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.124	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.144	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.177	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.134	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.186	5.18	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0526	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0468	1.04	PQL	ng/Kg	
	OCDF	JB	3.20	10.4	PQL	ng/Kg	
SL-113-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	2.98	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	4.64	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.941	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.831	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.82	5.23	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.236	5.23	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.977	5.23	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.312	5.23	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.319	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0679	1.05	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX130 **Laboratory: LL**

EDD Filename: DX130_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-113-SA6-SB-7.0-8.0	1,2,3,4,7,8,9-HPCDF	JB	0.769	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.08	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.282	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.79	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.227	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.43	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0656	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.413	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0641	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.274	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0638	5.30	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0418	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0211	1.06	PQL	ng/Kg	
SL-195-SA6-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDD	JB	1.04	5.16	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.326	5.16	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0404	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0297	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.111	5.16	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.135	5.16	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0546	5.16	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.124	5.16	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.108	5.16	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0264	5.16	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.188	5.16	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0924	5.16	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.504	5.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0478	1.03	PQL	ng/Kg	
	OCDD	JB	7.21	10.3	PQL	ng/Kg	
	OCDF	JB	0.556	10.3	PQL	ng/Kg	
SL-197-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.643	5.42	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.207	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0817	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.137	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.234	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.188	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.215	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.246	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.246	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.275	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.382	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.134	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.329	5.42	PQL	ng/Kg	
	OCDD	JB	3.67	10.8	PQL	ng/Kg	
	OCDF	JB	0.239	10.8	PQL	ng/Kg	
SL-208-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	0.568	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.256	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.253	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.989	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.302	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.566	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.148	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.138	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.118	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.450	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.126	5.42	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0339	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0271	1.08	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX130 **Laboratory: LL**

EDD Filename: DX130_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-246-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	1.26	5.46	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.37	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.853	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.07	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.638	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.24	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.452	5.46	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.499	5.46	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.903	5.46	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.386	5.46	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0612	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.349	1.09	PQL	ng/Kg	
SL-247-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.307	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0487	5.32	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0151	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0264	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0243	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.00778	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0213	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0144	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0155	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0107	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0312	5.32	PQL	ng/Kg	
	OCDD	JB	1.32	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.103	10.6	PQL	ng/Kg	
SL-250-SA6-SB-3.0-4.0	1,2,3,4,7,8,9-HPCDF	JB	1.60	5.12	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.876	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.50	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.28	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.22	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.71	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.373	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.557	5.12	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.13	5.12	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.83	5.12	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.119	1.02	PQL	ng/Kg	
SL-252-SA6-SB-4.0-5.0	1,2,3,7,8-PECDD	JB	3.95	5.26	PQL	ng/Kg	J (all detects)
	2,3,7,8-TCDD	J	0.727	1.05	PQL	ng/Kg	
SL-256-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	3.70	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.01	5.31	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.124	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0829	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.133	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.439	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.155	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.422	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.158	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0719	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.146	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.120	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.181	5.31	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0159	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0601	1.06	PQL	ng/Kg	
	OCDF	JB	1.95	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX130 **Laboratory: LL**

EDD Filename: DX130_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-257-SA6-SB-1.5-2.5	1,2,3,4,7,8,9-HPCDF	JB	0.465	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.525	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.635	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.47	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.314	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.885	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.125	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.236	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.367	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.366	5.17	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.512	1.03	PQL	ng/Kg	
SL-291-SA6-SB-2.0-3.0	1,2,3,4,7,8,9-HPCDF	JB	2.05	5.04	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.55	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.80	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.92	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.687	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.971	5.04	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.59	5.04	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.36	5.04	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX131

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	SL-255-SA6-SB-2.0-3.0	6390972	N	METHOD	1613B	III
29-Aug-2011	SL-253-SA6-SB-4.0-5.0	6390971	N	METHOD	1613B	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0	6390970	N	METHOD	1613B	III
29-Aug-2011	SL-192-SA6-SB-4.0-5.0	6390973	N	METHOD	1613B	III
29-Aug-2011	SL-192-SA6-SB-9.0-10.0	6390974	N	METHOD	1613B	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0	6392239	N	METHOD	1613B	III
30-Aug-2011	SL-267-SA6-SB-9.0-10.0	6392240	N	METHOD	1613B	III
30-Aug-2011	SL-305-SA6-SS-0.0-0.5	6392242	N	METHOD	1613B	III
30-Aug-2011	SL-305-SA6-SB-2.0-3.0	6392241	N	METHOD	1613B	III
30-Aug-2011	EB-SA6-SB-083011	6392245	EB	METHOD	1613B	III
30-Aug-2011	SL-306-SA6-SB-4.0-5.0	6392244	N	METHOD	1613B	III
30-Aug-2011	SL-306-SA6-SS-0.0-0.5	6392243	N	METHOD	1613B	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0	6393655	N	METHOD	1613B	III
31-Aug-2011	SL-198-SA6-SB-9.0-10.0	6393656	N	METHOD	1613B	III
31-Aug-2011	SL-213-SA6-SB-4.0-5.0	6393660	N	METHOD	1613B	III
31-Aug-2011	SL-201-SA6-SB-2.0-3.0	6393659	N	METHOD	1613B	III
31-Aug-2011	SL-270-SA6-SB-2.0-3.0	6393661	N	METHOD	1613B	III
31-Aug-2011	SL-199-SA6-SB-4.0-5.0	6393657	N	METHOD	1613B	III
31-Aug-2011	SL-200-SA6-SB-4.0-5.0	6393658	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX131 Laboratory: LL

EDD Filename: DX131_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,6,7,8-HPCDD	2.92	JBQ	0.381	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.06	JB	0.167	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.360	JBQ	0.160	MDL	10.3	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.377	JBQ	0.155	MDL	10.3	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.250	JBQ	0.224	MDL	10.3	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.183	JBQ	0.150	MDL	10.3	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.309	JBQ	0.146	MDL	10.3	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.473	JQ	0.109	MDL	10.3	PQL	pg/L	J	Z
OCDD	4.69	JBQ	0.243	MDL	20.6	PQL	pg/L	U	B
OCDF	1.76	JBQ	0.384	MDL	20.6	PQL	pg/L	U	B

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,6,7,8-HPCDD	3.52	JB	0.0721	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.12	JB	0.0262	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.153	JB	0.0415	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0798	JB	0.0305	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.197	JB	0.0341	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.200	JQ	0.0311	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.152	JB	0.0301	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.158	JB	0.0274	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0903	JB	0.0378	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0587	JQ	0.0169	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0986	JB	0.0138	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.189	JBQ	0.0311	MDL	5.25	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0991	JB	0.0154	MDL	5.25	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0284	J	0.0149	MDL	1.05	PQL	ng/Kg	J	Z
OCDF	1.45	JB	0.0432	MDL	10.5	PQL	ng/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: DX131 **Laboratory: LL**

EDD Filename: DX131_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,6,7,8-HPCDF	1.27	JB	0.0198	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.160	JB	0.0292	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0690	JBQ	0.0311	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.224	JB	0.0329	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.230	J	0.0314	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.119	JBQ	0.0283	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.178	JB	0.0304	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.126	JBQ	0.0305	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0290	JQ	0.0175	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0913	JB	0.0171	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.162	JB	0.0281	MDL	5.32	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0904	JBQ	0.0180	MDL	5.32	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0349	JQ	0.0304	MDL	1.06	PQL	ng/Kg	J	Z
OCDF	2.15	JB	0.0410	MDL	10.6	PQL	ng/Kg	J	Z

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
1,2,3,4,6,7,8-HPCDD	2.17	JB	0.0511	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.754	JB	0.0271	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0764	JBQ	0.0448	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0340	JB	0.0237	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.116	JB	0.0251	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.121	J	0.0240	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0610	JB	0.0215	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.149	JB	0.0220	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.165	JBQ	0.0278	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0375	JQ	0.0266	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0805	JB	0.0150	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.139	JB	0.0239	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.114	JB	0.0151	MDL	5.21	PQL	ng/Kg	U	B
OCDF	1.15	JB	0.0466	MDL	10.4	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX131 **Laboratory:** LL

EDD Filename: DX131_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

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
1,2,3,4,6,7,8-HPCDD	1.97	JB	0.0382	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.08	JB	0.0216	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.115	JB	0.0302	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0281	JB	0.0246	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.170	JB	0.0267	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.150	JQ	0.0252	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.107	JB	0.0244	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.226	JB	0.0229	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.269	JB	0.0283	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0369	JQ	0.0242	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.121	JB	0.0168	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.210	JB	0.0259	MDL	5.36	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.144	JB	0.0172	MDL	5.36	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0512	J	0.0132	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0393	JQ	0.0242	MDL	1.07	PQL	ng/Kg	J	Z
OCDF	1.21	JB	0.0374	MDL	10.7	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.809	JB	0.0340	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.710	JB	0.0176	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0786	JB	0.0269	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.117	JB	0.0210	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0514	JQ	0.0189	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0842	JB	0.0187	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0480	JBQ	0.0187	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0496	JBQ	0.0128	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.184	JBQ	0.0208	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0983	JBQ	0.0139	MDL	5.41	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0311	JQ	0.0174	MDL	1.08	PQL	ng/Kg	J	Z
OCDD	5.37	JB	0.0416	MDL	10.8	PQL	ng/Kg	J	Z
OCDF	0.521	JB	0.0378	MDL	10.8	PQL	ng/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: DX131 **Laboratory:** LL

EDD Filename: DX131_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

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
1,2,3,4,6,7,8-HPCDD	1.37	JB	0.0522	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.698	JB	0.0196	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0913	JB	0.0305	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0294	JB	0.0197	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.140	JB	0.0239	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0786	JQ	0.0209	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0795	JB	0.0204	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.116	JB	0.0185	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.115	JB	0.0268	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0421	JB	0.0178	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.166	JB	0.0218	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0976	JB	0.0181	MDL	5.55	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0261	JQ	0.0181	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	8.74	JB	0.0373	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.645	JB	0.0369	MDL	11.1	PQL	ng/Kg	U	B

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
1,2,3,4,6,7,8-HPCDF	4.33	JB	0.0387	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.416	JB	0.0543	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.265	JB	0.0786	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.222	JBQ	0.0372	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.984	J	0.0780	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.166	JB	0.0349	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.294	JBQ	0.0703	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.166	JB	0.0411	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.114	J	0.0391	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.191	JB	0.0157	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.311	JB	0.0358	MDL	5.00	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.205	JB	0.0157	MDL	5.00	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0431	JQ	0.0139	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0895	J	0.0317	MDL	1.00	PQL	ng/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: DX131 **Laboratory: LL**

EDD Filename: DX131_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

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
1,2,3,4,6,7,8-HPCDD	0.766	JB	0.0391	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.428	JB	0.0157	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0789	JB	0.0268	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0509	JBQ	0.0246	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.178	JB	0.0219	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.194	J	0.0240	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.131	JB	0.0185	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.278	JB	0.0223	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.229	JB	0.0252	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.156	J	0.0236	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.216	JB	0.0155	MDL	5.29	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.152	JBQ	0.0194	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.175	JB	0.0163	MDL	5.29	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0529	J	0.0192	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	5.58	JB	0.0266	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.510	JB	0.0346	MDL	10.6	PQL	ng/Kg	U	B

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
1,2,3,4,6,7,8-HPCDF	4.82	JB	0.0363	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.446	JB	0.0434	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.283	JB	0.0733	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.559	JB	0.0571	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.610	J	0.0749	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.328	JB	0.0520	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.379	JB	0.0715	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.298	JB	0.0588	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.117	J	0.0336	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.286	JB	0.0337	MDL	5.23	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.431	JB	0.0540	MDL	5.23	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.257	JB	0.0328	MDL	5.23	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0253	J	0.0194	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0506	J	0.0468	MDL	1.05	PQL	ng/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: DX131 Laboratory: LL

EDD Filename: DX131_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

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
OCDF	8.95	JB	0.0318	MDL	10.5	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	0.451	JB	0.0440	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.221	JB	0.0697	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.772	JB	0.0676	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.92	J	0.0717	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.514	JB	0.0651	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.01	JB	0.0663	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.239	JB	0.0701	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0981	JQ	0.0241	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.446	JB	0.0407	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.562	JB	0.0593	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.452	JB	0.0384	MDL	5.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.414	J	0.0776	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	8.13	JB	0.0288	MDL	10.3	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.321	JB	0.0203	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.351	JB	0.0119	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0697	JB	0.0183	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0827	JB	0.0143	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0789	JQ	0.0161	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0727	JB	0.0119	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0915	JB	0.0156	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0661	JB	0.0155	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0294	JQ	0.0168	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0294	JBQ	0.0105	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0979	JBQ	0.0128	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0714	JB	0.0114	MDL	5.37	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0228	JQ	0.0165	MDL	1.07	PQL	ng/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: DX131 **Laboratory:** LL

EDD Filename: DX131_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

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
2,3,7,8-TCDF	0.0174	JQ	0.0159	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	0.651	JB	0.0294	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.265	JB	0.0325	MDL	10.7	PQL	ng/Kg	U	B

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
1,2,3,4,6,7,8-HPCDD	0.616	JB	0.0300	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.486	JB	0.0152	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0826	JB	0.0206	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.293	JB	0.0211	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0364	JQ	0.0246	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0764	JB	0.0187	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0592	JBQ	0.0241	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0446	JQ	0.0279	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.215	JB	0.0224	MDL	4.92	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.104	JB	0.0188	MDL	4.92	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0681	JB	0.0233	MDL	4.92	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.125	JQ	0.0250	MDL	0.984	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0222	JQ	0.0222	MDL	0.984	PQL	ng/Kg	J	Z
OCDD	3.06	JB	0.0292	MDL	9.84	PQL	ng/Kg	J	Z
OCDF	0.496	JB	0.0278	MDL	9.84	PQL	ng/Kg	U	B

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
1,2,3,4,6,7,8-HPCDD	0.490	JB	0.0241	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.370	JB	0.0108	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0527	JBQ	0.0175	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0209	JBQ	0.0158	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0863	JB	0.0148	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0255	JQ	0.0164	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0476	JB	0.0130	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0412	JBQ	0.0147	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0649	JB	0.0155	MDL	5.11	PQL	ng/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: DX131 **Laboratory:** LL

EDD Filename: DX131_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,7,8-PECDD	0.0247	JQ	0.0154	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0244	JBQ	0.0102	MDL	5.11	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0908	JBQ	0.0135	MDL	5.11	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0777	JBQ	0.0101	MDL	5.11	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0380	J	0.0145	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0180	JQ	0.0133	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	2.19	JB	0.0290	MDL	10.2	PQL	ng/Kg	J	Z
OCDF	0.303	JBQ	0.0276	MDL	10.2	PQL	ng/Kg	U	B

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
1,2,3,4,6,7,8-HPCDD	1.30	JB	0.0492	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.446	JB	0.0163	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0867	JB	0.0260	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0628	JBQ	0.0183	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.117	JB	0.0157	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.109	J	0.0185	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0895	JBQ	0.0145	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.130	JB	0.0172	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0960	JBQ	0.0179	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0673	J	0.0154	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0713	JB	0.0105	MDL	5.07	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.120	JB	0.0159	MDL	5.07	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0998	JB	0.0117	MDL	5.07	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0373	JQ	0.0193	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0245	J	0.0174	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	0.438	JB	0.0295	MDL	10.1	PQL	ng/Kg	U	B

Sample ID: SL-305-SA6-SB-2.0-3.0 *Collected:* 8/30/2011 12:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.346	JB	0.0189	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.379	JB	0.0115	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0550	JB	0.0177	MDL	5.25	PQL	ng/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: DX131 **Laboratory:** LL

EDD Filename: DX131_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-305-SA6-SB-2.0-3.0 *Collected:* 8/30/2011 12:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.0651	JB	0.0181	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.161	JB	0.0164	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0746	J	0.0185	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.131	JB	0.0138	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0987	JB	0.0168	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.118	JB	0.0185	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.130	J	0.0168	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.174	JB	0.0143	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.145	JB	0.0153	MDL	5.25	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.197	JB	0.0139	MDL	5.25	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0479	J	0.0159	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0610	JQ	0.0181	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	0.528	JB	0.0252	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.306	JB	0.0250	MDL	10.5	PQL	ng/Kg	U	B

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
1,2,3,4,7,8,9-HPCDF	0.587	JB	0.0676	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.489	JB	0.125	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.35	JB	0.174	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.34	J	0.123	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.02	JB	0.135	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.04	JB	0.119	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.368	JB	0.104	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.537	J	0.0433	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.612	JB	0.0977	MDL	5.24	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.66	JB	0.0884	MDL	5.24	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	4.74	JB	0.0928	MDL	5.24	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.138	J	0.0220	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.583	J	0.116	MDL	1.05	PQL	ng/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: DX131 **Laboratory:** LL

EDD Filename: DX131_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

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
1,2,3,4,6,7,8-HPCDD	0.350	JB	0.0293	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.440	JB	0.0156	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0583	JB	0.0241	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0779	JB	0.0163	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0608	JBQ	0.0145	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0452	JB	0.0151	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0600	JBQ	0.0180	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0170	JBQ	0.0120	MDL	5.18	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.106	JB	0.0146	MDL	5.18	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0673	JBQ	0.0120	MDL	5.18	PQL	ng/Kg	U	B
OCDD	0.857	JB	0.0414	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.307	JB	0.0394	MDL	10.4	PQL	ng/Kg	U	B

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
1,2,3,4,7,8,9-HPCDF	1.04	JB	0.0691	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.59	JB	0.0887	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.14	JB	0.0608	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.20	J	0.0888	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.950	JB	0.0553	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.48	JB	0.0829	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.495	JB	0.0607	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.323	J	0.0543	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.268	JB	0.0589	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.28	JB	0.0544	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.04	JB	0.0579	MDL	4.96	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0659	JQ	0.0188	MDL	0.991	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.201	J	0.0946	MDL	0.991	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX131 **Laboratory: LL**

EDD Filename: DX131_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DX131 **Laboratory: LL**

EDD Filename: DX131_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

Data Qualifier Summary

Lab Reporting Batch ID: DX131 **Laboratory: LL**

EDD Filename: DX131_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX131

Method Blank Outlier Report

Lab Reporting Batch ID: DX131 **Laboratory: LL**

EDD Filename: DX131_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2490B371547	9/8/2011 3:47:00 PM	1,2,3,4,6,7,8-HPCDD	2.69 pg/L	EB-SA6-SB-083011
		1,2,3,4,6,7,8-HPCDF	2.50 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.533 pg/L	
		1,2,3,4,7,8-HxCDD	0.566 pg/L	
		1,2,3,4,7,8-HXCDF	0.432 pg/L	
		1,2,3,6,7,8-HXCDF	0.280 pg/L	
		1,2,3,7,8,9-HXCDD	0.290 pg/L	
		1,2,3,7,8,9-HXCDF	0.341 pg/L	
		1,2,3,7,8-PECDF	0.212 pg/L	
		2,3,4,6,7,8-HXCDF	0.524 pg/L	
		OCDD	5.61 pg/L	
		OCDF	1.43 pg/L	

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(RES)	1,2,3,4,6,7,8-HPCDD	2.92 pg/L	2.92U pg/L
EB-SA6-SB-083011(RES)	1,2,3,4,6,7,8-HPCDF	2.06 pg/L	2.06U pg/L
EB-SA6-SB-083011(RES)	1,2,3,4,7,8-HXCDF	0.360 pg/L	0.360U pg/L
EB-SA6-SB-083011(RES)	1,2,3,6,7,8-HXCDF	0.377 pg/L	0.377U pg/L
EB-SA6-SB-083011(RES)	1,2,3,7,8,9-HXCDD	0.250 pg/L	0.250U pg/L
EB-SA6-SB-083011(RES)	1,2,3,7,8,9-HXCDF	0.183 pg/L	0.183U pg/L
EB-SA6-SB-083011(RES)	2,3,4,6,7,8-HXCDF	0.309 pg/L	0.309U pg/L
EB-SA6-SB-083011(RES)	OCDD	4.69 pg/L	4.69U pg/L
EB-SA6-SB-083011(RES)	OCDF	1.76 pg/L	1.76U pg/L

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2490B371845	9/7/2011 6:45:00 PM	1,2,3,4,6,7,8-HPCDD	0.226 ng/Kg	SL-192-SA6-SB-4.0-5.0
		1,2,3,4,6,7,8-HPCDF	0.213 ng/Kg	SL-192-SA6-SB-9.0-10.0
		1,2,3,4,7,8,9-HPCDF	0.0451 ng/Kg	SL-198-SA6-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0185 ng/Kg	SL-198-SA6-SB-9.0-10.0
		1,2,3,4,7,8-HXCDF	0.0589 ng/Kg	SL-199-SA6-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0232 ng/Kg	SL-200-SA6-SB-4.0-5.0
		1,2,3,7,8,9-HXCDD	0.0213 ng/Kg	SL-201-SA6-SB-2.0-3.0
		1,2,3,7,8,9-HXCDF	0.0299 ng/Kg	SL-213-SA6-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0175 ng/Kg	SL-249-SA6-SB-4.0-5.0
		2,3,4,6,7,8-HXCDF	0.0940 ng/Kg	SL-253-SA6-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0541 ng/Kg	SL-255-SA6-SB-2.0-3.0
		OCDD	0.436 ng/Kg	SL-267-SA6-SB-4.0-5.0
		OCDF	0.215 ng/Kg	SL-267-SA6-SB-9.0-10.0
				SL-270-SA6-SB-2.0-3.0
				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-192-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.153 ng/Kg	0.153U ng/Kg
SL-192-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0798 ng/Kg	0.0798U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX131 **Laboratory: LL**

EDD Filename: DX131_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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)	1,2,3,4,7,8-HXCDF	0.197 ng/Kg	0.197U ng/Kg
SL-192-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0903 ng/Kg	0.0903U ng/Kg
SL-192-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.189 ng/Kg	0.189U ng/Kg
SL-192-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0991 ng/Kg	0.0991U ng/Kg
SL-192-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.160 ng/Kg	0.160U ng/Kg
SL-192-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0690 ng/Kg	0.0690U ng/Kg
SL-192-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.224 ng/Kg	0.224U ng/Kg
SL-192-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-192-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.162 ng/Kg	0.162U ng/Kg
SL-192-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0904 ng/Kg	0.0904U ng/Kg
SL-198-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.754 ng/Kg	0.754U ng/Kg
SL-198-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0764 ng/Kg	0.0764U ng/Kg
SL-198-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0340 ng/Kg	0.0340U ng/Kg
SL-198-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.116 ng/Kg	0.116U ng/Kg
SL-198-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0610 ng/Kg	0.0610U ng/Kg
SL-198-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0805 ng/Kg	0.0805U ng/Kg
SL-198-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.139 ng/Kg	0.139U ng/Kg
SL-198-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.114 ng/Kg	0.114U ng/Kg
SL-198-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.115 ng/Kg	0.115U ng/Kg
SL-198-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0281 ng/Kg	0.0281U ng/Kg
SL-198-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.170 ng/Kg	0.170U ng/Kg
SL-198-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.107 ng/Kg	0.107U ng/Kg
SL-198-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.210 ng/Kg	0.210U ng/Kg
SL-198-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.144 ng/Kg	0.144U ng/Kg
SL-199-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.809 ng/Kg	0.809U ng/Kg
SL-199-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.710 ng/Kg	0.710U ng/Kg
SL-199-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0786 ng/Kg	0.0786U ng/Kg
SL-199-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.117 ng/Kg	0.117U ng/Kg
SL-199-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0842 ng/Kg	0.0842U ng/Kg
SL-199-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0480 ng/Kg	0.0480U ng/Kg
SL-199-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0496 ng/Kg	0.0496U ng/Kg
SL-199-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.184 ng/Kg	0.184U ng/Kg
SL-199-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0983 ng/Kg	0.0983U ng/Kg
SL-199-SA6-SB-4.0-5.0(RES)	OCDF	0.521 ng/Kg	0.521U ng/Kg
SL-200-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.698 ng/Kg	0.698U ng/Kg
SL-200-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0913 ng/Kg	0.0913U ng/Kg
SL-200-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0294 ng/Kg	0.0294U ng/Kg
SL-200-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.140 ng/Kg	0.140U ng/Kg
SL-200-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0795 ng/Kg	0.0795U ng/Kg
SL-200-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.115 ng/Kg	0.115U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX131 **Laboratory: LL**

EDD Filename: DX131_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-200-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0421 ng/Kg	0.0421U ng/Kg
SL-200-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.166 ng/Kg	0.166U ng/Kg
SL-200-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0976 ng/Kg	0.0976U ng/Kg
SL-200-SA6-SB-4.0-5.0(RES)	OCDF	0.645 ng/Kg	0.645U ng/Kg
SL-201-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.222 ng/Kg	0.222U ng/Kg
SL-201-SA6-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.311 ng/Kg	0.311U ng/Kg
SL-201-SA6-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.205 ng/Kg	0.205U ng/Kg
SL-213-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.766 ng/Kg	0.766U ng/Kg
SL-213-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.428 ng/Kg	0.428U ng/Kg
SL-213-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0789 ng/Kg	0.0789U ng/Kg
SL-213-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0509 ng/Kg	0.0509U ng/Kg
SL-213-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.178 ng/Kg	0.178U ng/Kg
SL-213-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.152 ng/Kg	0.152U ng/Kg
SL-213-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.175 ng/Kg	0.175U ng/Kg
SL-213-SA6-SB-4.0-5.0(RES)	OCDF	0.510 ng/Kg	0.510U ng/Kg
SL-249-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.431 ng/Kg	0.431U ng/Kg
SL-249-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.257 ng/Kg	0.257U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.321 ng/Kg	0.321U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.351 ng/Kg	0.351U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0697 ng/Kg	0.0697U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0827 ng/Kg	0.0827U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0727 ng/Kg	0.0727U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.0915 ng/Kg	0.0915U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0661 ng/Kg	0.0661U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0294 ng/Kg	0.0294U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0979 ng/Kg	0.0979U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0714 ng/Kg	0.0714U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	OCDD	0.651 ng/Kg	0.651U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	OCDF	0.265 ng/Kg	0.265U ng/Kg
SL-267-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.616 ng/Kg	0.616U ng/Kg
SL-267-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.486 ng/Kg	0.486U ng/Kg
SL-267-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0826 ng/Kg	0.0826U ng/Kg
SL-267-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.293 ng/Kg	0.293U ng/Kg
SL-267-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0764 ng/Kg	0.0764U ng/Kg
SL-267-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0592 ng/Kg	0.0592U ng/Kg
SL-267-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.104 ng/Kg	0.104U ng/Kg
SL-267-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0681 ng/Kg	0.0681U ng/Kg
SL-267-SA6-SB-4.0-5.0(RES)	OCDF	0.496 ng/Kg	0.496U ng/Kg
SL-267-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.490 ng/Kg	0.490U ng/Kg
SL-267-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.370 ng/Kg	0.370U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX131 **Laboratory: LL**

EDD Filename: DX131_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0527 ng/Kg	0.0527U ng/Kg
SL-267-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0209 ng/Kg	0.0209U ng/Kg
SL-267-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0863 ng/Kg	0.0863U ng/Kg
SL-267-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0476 ng/Kg	0.0476U ng/Kg
SL-267-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0412 ng/Kg	0.0412U ng/Kg
SL-267-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0649 ng/Kg	0.0649U ng/Kg
SL-267-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0244 ng/Kg	0.0244U ng/Kg
SL-267-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0908 ng/Kg	0.0908U ng/Kg
SL-267-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0777 ng/Kg	0.0777U ng/Kg
SL-267-SA6-SB-9.0-10.0(RES)	OCDF	0.303 ng/Kg	0.303U ng/Kg
SL-270-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.446 ng/Kg	0.446U ng/Kg
SL-270-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0867 ng/Kg	0.0867U ng/Kg
SL-270-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0628 ng/Kg	0.0628U ng/Kg
SL-270-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.117 ng/Kg	0.117U ng/Kg
SL-270-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0895 ng/Kg	0.0895U ng/Kg
SL-270-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0960 ng/Kg	0.0960U ng/Kg
SL-270-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0713 ng/Kg	0.0713U ng/Kg
SL-270-SA6-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-270-SA6-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0998 ng/Kg	0.0998U ng/Kg
SL-270-SA6-SB-2.0-3.0(RES)	OCDF	0.438 ng/Kg	0.438U ng/Kg
SL-305-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.346 ng/Kg	0.346U ng/Kg
SL-305-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.379 ng/Kg	0.379U ng/Kg
SL-305-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0550 ng/Kg	0.0550U ng/Kg
SL-305-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0651 ng/Kg	0.0651U ng/Kg
SL-305-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.161 ng/Kg	0.161U ng/Kg
SL-305-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.0987 ng/Kg	0.0987U ng/Kg
SL-305-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-305-SA6-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.145 ng/Kg	0.145U ng/Kg
SL-305-SA6-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.197 ng/Kg	0.197U ng/Kg
SL-305-SA6-SB-2.0-3.0(RES)	OCDD	0.528 ng/Kg	0.528U ng/Kg
SL-305-SA6-SB-2.0-3.0(RES)	OCDF	0.306 ng/Kg	0.306U ng/Kg
SL-306-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.350 ng/Kg	0.350U ng/Kg
SL-306-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.440 ng/Kg	0.440U ng/Kg
SL-306-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0583 ng/Kg	0.0583U ng/Kg
SL-306-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0779 ng/Kg	0.0779U ng/Kg
SL-306-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0608 ng/Kg	0.0608U ng/Kg
SL-306-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0452 ng/Kg	0.0452U ng/Kg
SL-306-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0600 ng/Kg	0.0600U ng/Kg
SL-306-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0170 ng/Kg	0.0170U ng/Kg
SL-306-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.106 ng/Kg	0.106U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX131 Laboratory: LL

EDD Filename: DX131_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-306-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0673 ng/Kg	0.0673U ng/Kg
SL-306-SA6-SB-4.0-5.0(RES)	OCDD	0.857 ng/Kg	0.857U ng/Kg
SL-306-SA6-SB-4.0-5.0(RES)	OCDF	0.307 ng/Kg	0.307U ng/Kg

Reporting Limit Outliers

Lab Reporting Batch ID: DX131 **Laboratory: LL**

EDD Filename: DX131_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-083011	1,2,3,4,6,7,8-HPCDD	JBQ	2.92	10.3	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	2.06	10.3	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.360	10.3	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.377	10.3	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.250	10.3	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.183	10.3	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.309	10.3	PQL	pg/L	
	2,3,4,7,8-PECDF	JQ	0.473	10.3	PQL	pg/L	
	OCDD	JBQ	4.69	20.6	PQL	pg/L	
	OCDF	JBQ	1.76	20.6	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-192-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	3.52	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.12	5.25	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.153	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0798	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.197	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.200	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.152	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.158	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0903	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0587	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0986	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.189	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0991	5.25	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0284	1.05	PQL	ng/Kg	
	OCDF	JB	1.45	10.5	PQL	ng/Kg	
SL-192-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	1.27	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.160	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0690	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.224	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.230	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.119	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.178	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.126	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0290	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0913	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.162	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0904	5.32	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0349	1.06	PQL	ng/Kg	
	OCDF	JB	2.15	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX131 **Laboratory: LL**

EDD Filename: DX131_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-198-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.17	5.21	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.754	5.21	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0764	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0340	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.116	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.121	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0610	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.149	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.165	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0375	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0805	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.139	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.114	5.21	PQL	ng/Kg	
	OCDF	JB	1.15	10.4	PQL	ng/Kg	
SL-198-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.97	5.36	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.08	5.36	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.115	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0281	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.170	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.150	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.107	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.226	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.269	5.36	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0369	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.121	5.36	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.210	5.36	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.144	5.36	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0512	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0393	1.07	PQL	ng/Kg	
	OCDF	JB	1.21	10.7	PQL	ng/Kg	
SL-199-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.809	5.41	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.710	5.41	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0786	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.117	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0514	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0842	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0480	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0496	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.184	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0983	5.41	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0311	1.08	PQL	ng/Kg	
	OCDD	JB	5.37	10.8	PQL	ng/Kg	
	OCDF	JB	0.521	10.8	PQL	ng/Kg	
SL-200-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.37	5.55	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.698	5.55	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0913	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0294	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.140	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0786	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0795	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.116	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.115	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0421	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.166	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0976	5.55	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0261	1.11	PQL	ng/Kg	
	OCDD	JB	8.74	11.1	PQL	ng/Kg	
	OCDF	JB	0.645	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX131 **Laboratory: LL**

EDD Filename: DX131_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-201-SA6-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDF	JB	4.33	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.416	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.265	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.222	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.984	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.166	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.294	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.166	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.114	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.191	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.311	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.205	5.00	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0431	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0895	1.00	PQL	ng/Kg	
SL-213-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.766	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.428	5.29	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0789	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0509	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.178	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.194	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.131	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.278	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.229	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.156	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.216	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.152	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.175	5.29	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0529	1.06	PQL	ng/Kg	
	OCDD	JB	5.58	10.6	PQL	ng/Kg	
	OCDF	JB	0.510	10.6	PQL	ng/Kg	
SL-249-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	4.82	5.23	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.446	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.283	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.559	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.610	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.328	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.379	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.298	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.117	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.286	5.23	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.431	5.23	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.257	5.23	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0253	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0506	1.05	PQL	ng/Kg	
	OCDF	JB	8.95	10.5	PQL	ng/Kg	
SL-253-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	0.451	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.221	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.772	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	2.92	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.514	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.01	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.239	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0981	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.446	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.562	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.452	5.17	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.414	1.03	PQL	ng/Kg	
	OCDF	JB	8.13	10.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX131 **Laboratory: LL**

EDD Filename: DX131_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-255-SA6-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.321	5.37	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.351	5.37	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0697	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0827	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0789	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0727	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0915	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0661	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0294	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0294	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0979	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0714	5.37	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0228	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0174	1.07	PQL	ng/Kg	
	OCDD	JB	0.651	10.7	PQL	ng/Kg	
	OCDF	JB	0.265	10.7	PQL	ng/Kg	
SL-267-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.616	4.92	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.486	4.92	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0826	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.293	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0364	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0764	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0592	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0446	4.92	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.215	4.92	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.104	4.92	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0681	4.92	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.125	0.984	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0222	0.984	PQL	ng/Kg	
	OCDD	JB	3.06	9.84	PQL	ng/Kg	
	OCDF	JB	0.496	9.84	PQL	ng/Kg	
SL-267-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.490	5.11	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.370	5.11	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0527	5.11	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0209	5.11	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0863	5.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0255	5.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0476	5.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0412	5.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0649	5.11	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0247	5.11	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0244	5.11	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0908	5.11	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0777	5.11	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0380	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0180	1.02	PQL	ng/Kg	
	OCDD	JB	2.19	10.2	PQL	ng/Kg	
	OCDF	JBQ	0.303	10.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX131 **Laboratory: LL**

EDD Filename: DX131_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-270-SA6-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	1.30	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.446	5.07	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0867	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0628	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.117	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.109	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0895	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.130	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0960	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0673	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0713	5.07	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.120	5.07	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0998	5.07	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0373	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0245	1.01	PQL	ng/Kg	
	OCDF	JB	0.438	10.1	PQL	ng/Kg	
SL-305-SA6-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.346	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.379	5.25	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0550	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0651	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.161	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.0746	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.131	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0987	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.118	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.130	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.174	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.145	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.197	5.25	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0479	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0610	1.05	PQL	ng/Kg	
	OCDD	JB	0.528	10.5	PQL	ng/Kg	
	OCDF	JB	0.306	10.5	PQL	ng/Kg	
SL-305-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.587	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.489	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.35	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	1.34	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.02	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.04	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.368	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.537	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.612	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.66	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	4.74	5.24	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.138	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.583	1.05	PQL	ng/Kg	
SL-306-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.350	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.440	5.18	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0583	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0779	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0608	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0452	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0600	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0170	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.106	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0673	5.18	PQL	ng/Kg	
	OCDD	JB	0.857	10.4	PQL	ng/Kg	
	OCDF	JB	0.307	10.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX131 **Laboratory: LL**

EDD Filename: DX131_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-306-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.04	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.59	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.14	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	2.20	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.950	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.48	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.495	4.96	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.323	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.268	4.96	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.28	4.96	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.04	4.96	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0659	0.991	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.201	0.991	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX132

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	SL-258-SA6-SB-0.0-0.83	6395215	N	METHOD	1613B	IV
01-Sep-2011	SL-262-SA6-SB-4.0-5.0	6395216	N	METHOD	1613B	IV
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MS	6395217	MS	METHOD	1613B	IV
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MSD	6395218	MSD	METHOD	1613B	IV
01-Sep-2011	DUP14-SA6-QC-090111	6395221	FD	METHOD	1613B	IV
01-Sep-2011	SL-266-SA6-SB-4.0-5.0	6395220	N	METHOD	1613B	IV
01-Sep-2011	SL-264-SA6-SB-0.4-1.4	6395219	N	METHOD	1613B	IV
06-Sep-2011	SL-263-SA6-SB-4.0-5.0	6397906	N	METHOD	1613B	IV
06-Sep-2011	SL-263-SA6-SB-9.0-10.0	6397907	N	METHOD	1613B	IV
06-Sep-2011	SL-261-SA6-SB-1.5-2.5	6397904	N	METHOD	1613B	IV
06-Sep-2011	SL-261-SA6-SB-9.0-10.0	6397905	N	METHOD	1613B	IV
06-Sep-2011	SL-204-SA6-SB-4.0-5.0	6397903	N	METHOD	1613B	IV
07-Sep-2011	SL-311-SA6-SB-2.0-3.0	6400464	N	METHOD	1613B	IV
07-Sep-2011	SL-205-SA6-SB-4.0-5.0	6400463	N	METHOD	1613B	IV
07-Sep-2011	EB-SA6-SB-090711	6400465	EB	METHOD	1613B	IV

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX132 Laboratory: LL

EDD Filename: DX132_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM
Method: 1613B **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
1,2,3,4,6,7,8-HPCDD	2.78	JB	0.496	MDL	9.85	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.98	JBQ	0.239	MDL	9.85	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.355	JBQ	0.280	MDL	9.85	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.618	JBQ	0.307	MDL	9.85	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.297	JBQ	0.211	MDL	9.85	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.296	JQ	0.197	MDL	9.85	PQL	pg/L	J	Z
1,2,3,7,8,9-HXCDD	0.436	JBQ	0.284	MDL	9.85	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.324	JBQ	0.147	MDL	9.85	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.309	JBQ	0.179	MDL	9.85	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.684	JBQ	0.184	MDL	9.85	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.344	JBQ	0.156	MDL	9.85	PQL	pg/L	U	B
OCDD	6.01	JBQ	0.294	MDL	19.7	PQL	pg/L	U	B
OCDF	2.71	JB	0.397	MDL	19.7	PQL	pg/L	U	B

Method Category: GENCHEM
Method: 1613B **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
1,2,3,4,6,7,8-HPCDD	0.297	JB	0.0183	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.187	JB	0.00932	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0361	JB	0.0151	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0602	JB	0.0115	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0375	JBQ	0.0147	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0267	JB	0.00954	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0327	JBQ	0.0137	MDL	5.49	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0345	JB	0.0102	MDL	5.49	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0296	JBQ	0.0101	MDL	5.49	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0523	JBQ	0.0101	MDL	5.49	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0657	JBQ	0.0118	MDL	5.49	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0186	J	0.0156	MDL	1.10	PQL	ng/Kg	J	Z, FD
OCDD	0.818	JB	0.0323	MDL	11.0	PQL	ng/Kg	UJ	B, FD
OCDF	0.168	JB	0.0229	MDL	11.0	PQL	ng/Kg	UJ	B, 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: DX132 Laboratory: LL

EDD Filename: DX132_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,6,7,8-HPCDD	0.704	JB	0.0344	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.299	JB	0.0108	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0812	JBQ	0.0204	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0678	J	0.0179	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.157	JBQ	0.0197	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0670	JBQ	0.0187	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.114	JBQ	0.0164	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0649	JB	0.0159	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0860	JB	0.0197	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.167	JB	0.0170	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.193	JB	0.0124	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.125	JB	0.0156	MDL	5.36	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.208	JB	0.0138	MDL	5.36	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0539	JQ	0.0174	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0632	J	0.0172	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	7.69	JB	0.0296	MDL	10.7	PQL	ng/Kg	J	Z
OCDF	0.535	JB	0.0298	MDL	10.7	PQL	ng/Kg	U	B

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
1,2,3,4,6,7,8-HPCDD	0.991	JB	0.0322	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.447	JB	0.0133	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0831	JBQ	0.0266	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.148	JB	0.0197	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0407	JB	0.0151	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.113	JBQ	0.0164	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0520	JB	0.0140	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0328	JBQ	0.0249	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0162	JBQ	0.0161	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.719	JB	0.0348	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0869	JB	0.0193	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.206	JBQ	0.0377	MDL	5.45	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.360	J	0.0685	MDL	1.09	PQL	ng/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: DX132 **Laboratory:** LL

EDD Filename: DX132_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
OCDD	10.4	JB	0.0223	MDL	10.9	PQL	ng/Kg	J	Z
OCDF	1.04	JB	0.0317	MDL	10.9	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	1.12	JB	0.0514	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.901	J	0.105	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.87	JB	0.0639	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.75	JB	0.108	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.755	JB	0.0542	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.30	JB	0.102	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.317	JB	0.0592	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.300	JB	0.0481	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.831	JB	0.0609	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.611	JB	0.0461	MDL	5.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0449	JQ	0.0202	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.296	JQ	0.0476	MDL	1.01	PQL	ng/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
1,2,3,4,6,7,8-HPCDF	1.63	JB	0.0146	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.184	JB	0.0273	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.197	J	0.0542	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.382	JB	0.0490	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.587	JB	0.0537	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.313	JB	0.0392	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.539	JB	0.0455	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.406	JB	0.0594	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.408	JB	0.0300	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.604	JB	0.0168	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.296	JB	0.0476	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.540	JB	0.0187	MDL	5.51	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.108	J	0.0159	MDL	1.10	PQL	ng/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: DX132 **Laboratory:** LL

EDD Filename: DX132_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
2,3,7,8-TCDF	0.479	J	0.0322	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	3.73	JB	0.0295	MDL	11.0	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.334	JB	0.0210	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.245	JB	0.0102	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0780	JB	0.0225	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.131	JQ	0.0196	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.257	JB	0.0230	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.124	JB	0.0184	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.185	JB	0.0171	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.102	JB	0.0190	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.183	JB	0.0305	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.284	JB	0.0188	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.345	JBQ	0.0138	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.165	JB	0.0217	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.347	JB	0.0156	MDL	5.48	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.102	JQ	0.0181	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.118	JQ	0.0186	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	0.621	JB	0.0290	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.251	JB	0.0281	MDL	11.0	PQL	ng/Kg	U	B

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
1,2,3,4,6,7,8-HPCDD	0.353	JB	0.0218	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.166	JB	0.0119	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0351	JBQ	0.0175	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0458	JBQ	0.0178	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0451	JBQ	0.0171	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0320	JB	0.0136	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0762	JBQ	0.0152	MDL	5.44	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0112	U	0.0112	MDL	5.44	PQL	ng/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: DX132 Laboratory: LL

EDD Filename: DX132_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,7,8-PECDF	0.0147	JBQ	0.00930	MDL	5.44	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0625	JBQ	0.00952	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0569	JB	0.0118	MDL	5.44	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0164	U	0.0164	MDL	1.09	PQL	ng/Kg	UJ	FD
OCDD	2.08	JB	0.0302	MDL	10.9	PQL	ng/Kg	J	Z, FD
OCDF	0.343	JB	0.0278	MDL	10.9	PQL	ng/Kg	UJ	B, FD

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
1,2,3,4,6,7,8-HPCDD	0.363	JB	0.0182	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.230	JBQ	0.00891	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0567	JB	0.0154	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0536	J	0.0140	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.135	JB	0.0146	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0493	JBQ	0.0153	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.106	JB	0.0124	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0762	JBQ	0.0135	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.101	JB	0.0163	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.132	JBQ	0.0174	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.178	JB	0.0101	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0906	JB	0.0123	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.163	JB	0.0103	MDL	5.44	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0590	J	0.0146	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0577	JQ	0.0138	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	1.37	JB	0.0315	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.258	JB	0.0234	MDL	10.9	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.250	JB	0.0153	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.196	JB	0.00777	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0360	JBQ	0.0146	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0565	JB	0.0120	MDL	5.57	PQL	ng/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: DX132 Laboratory: LL

EDD Filename: DX132_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,6,7,8-HXCDD	0.0205	JBQ	0.0141	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0287	JBQ	0.0100	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0196	JBQ	0.0123	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0262	JB	0.0153	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0175	JBQ	0.0104	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0616	JBQ	0.0111	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0485	JB	0.0111	MDL	5.57	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0205	JQ	0.0166	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	0.522	JB	0.0255	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.205	JB	0.0242	MDL	11.1	PQL	ng/Kg	U	B

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
1,2,3,4,6,7,8-HPCDD	2.09	JB	0.0346	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.654	JB	0.0158	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.105	JBQ	0.0296	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0819	JQ	0.0261	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.117	JB	0.0191	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.134	JB	0.0280	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0869	JB	0.0151	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.165	JB	0.0241	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.143	JB	0.0211	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0749	JBQ	0.0218	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0720	JBQ	0.00996	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.110	JBQ	0.0160	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.121	JB	0.0113	MDL	5.09	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0193	JQ	0.0131	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	1.42	JB	0.0414	MDL	10.2	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	1.01	JB	0.0381	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.380	JB	0.0133	MDL	5.38	PQL	ng/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: DX132 **Laboratory:** LL

EDD Filename: DX132_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,7,8,9-HPCDF	0.0775	JBQ	0.0238	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0604	JB	0.0147	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0679	JBQ	0.0180	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0335	JBQ	0.0116	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.102	JBQ	0.0157	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.110	JBQ	0.0153	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0224	JBQ	0.0148	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0300	JBQ	0.0107	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0548	JB	0.0118	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0564	JBQ	0.0116	MDL	5.38	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0213	JQ	0.0166	MDL	1.08	PQL	ng/Kg	J	Z
OCDD	10.4	JB	0.0345	MDL	10.8	PQL	ng/Kg	J	Z
OCDF	0.769	JB	0.0314	MDL	10.8	PQL	ng/Kg	U	B

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
1,2,3,4,6,7,8-HPCDD	1.47	JB	0.0284	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.666	JB	0.0187	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0913	JB	0.0343	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.147	JB	0.0255	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.111	JB	0.0233	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.131	JB	0.0212	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.111	JB	0.0208	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0717	JBQ	0.0271	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0246	JB	0.0147	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0742	JBQ	0.0142	MDL	5.33	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.118	JB	0.0233	MDL	5.33	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.178	JBQ	0.0156	MDL	5.33	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.203	J	0.0265	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	9.15	JB	0.0254	MDL	10.7	PQL	ng/Kg	J	Z
OCDF	0.786	JB	0.0289	MDL	10.7	PQL	ng/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: DX132 **Laboratory: LL**

EDD Filename: DX132_v1 **eQAPP Name: CDM_SSFL_110509**

* 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: DX132 **Laboratory: LL**

EDD Filename: DX132_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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: DX132 **Laboratory: LL**

EDD Filename: DX132_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

Data Qualifier Summary

Lab Reporting Batch ID: DX132 **Laboratory: LL**

EDD Filename: DX132_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX132

Method Blank Outlier Report

Lab Reporting Batch ID: DX132 Laboratory: LL

EDD Filename: DX132_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2560B372026	9/14/2011 8:26:00 PM	1,2,3,4,6,7,8-HPCDD	2.87 pg/L	EB-SA6-SB-090711
		1,2,3,4,6,7,8-HPCDF	2.13 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.770 pg/L	
		1,2,3,4,7,8-HxCDD	0.441 pg/L	
		1,2,3,4,7,8-HXCDF	0.529 pg/L	
		1,2,3,6,7,8-HXCDD	0.617 pg/L	
		1,2,3,7,8,9-HXCDD	0.652 pg/L	
		1,2,3,7,8,9-HXCDF	0.522 pg/L	
		1,2,3,7,8-PECDF	0.426 pg/L	
		2,3,4,6,7,8-HXCDF	0.833 pg/L	
		2,3,4,7,8-PECDF	0.637 pg/L	
		2,3,7,8-TCDD	0.680 pg/L	
		OCDD	4.54 pg/L	
		OCDF	1.21 pg/L	

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)	1,2,3,4,6,7,8-HPCDD	2.78 pg/L	2.78U pg/L
EB-SA6-SB-090711(RES)	1,2,3,4,6,7,8-HPCDF	2.98 pg/L	2.98U pg/L
EB-SA6-SB-090711(RES)	1,2,3,4,7,8,9-HPCDF	0.355 pg/L	0.355U pg/L
EB-SA6-SB-090711(RES)	1,2,3,4,7,8-HxCDD	0.618 pg/L	0.618U pg/L
EB-SA6-SB-090711(RES)	1,2,3,4,7,8-HXCDF	0.297 pg/L	0.297U pg/L
EB-SA6-SB-090711(RES)	1,2,3,7,8,9-HXCDD	0.436 pg/L	0.436U pg/L
EB-SA6-SB-090711(RES)	1,2,3,7,8,9-HXCDF	0.324 pg/L	0.324U pg/L
EB-SA6-SB-090711(RES)	1,2,3,7,8-PECDF	0.309 pg/L	0.309U pg/L
EB-SA6-SB-090711(RES)	2,3,4,6,7,8-HXCDF	0.684 pg/L	0.684U pg/L
EB-SA6-SB-090711(RES)	2,3,4,7,8-PECDF	0.344 pg/L	0.344U pg/L
EB-SA6-SB-090711(RES)	OCDD	6.01 pg/L	6.01U pg/L
EB-SA6-SB-090711(RES)	OCDF	2.71 pg/L	2.71U pg/L

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2570B372148	9/16/2011 9:48:00 PM	1,2,3,4,6,7,8-HPCDD	0.215 ng/Kg	DUP14-SA6-QC-090111
		1,2,3,4,6,7,8-HPCDF	0.214 ng/Kg	SL-204-SA6-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0353 ng/Kg	SL-205-SA6-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0509 ng/Kg	SL-258-SA6-SB-0.0-0.83
		1,2,3,6,7,8-HXCDD	0.0140 ng/Kg	SL-261-SA6-SB-1.5-2.5
		1,2,3,6,7,8-HXCDF	0.0471 ng/Kg	SL-261-SA6-SB-9.0-10.0
		1,2,3,7,8,9-HXCDD	0.0192 ng/Kg	SL-262-SA6-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0275 ng/Kg	SL-263-SA6-SB-4.0-5.0
		1,2,3,7,8-PECDD	0.0158 ng/Kg	SL-263-SA6-SB-9.0-10.0
		1,2,3,7,8-PECDF	0.0181 ng/Kg	SL-264-SA6-SB-0.4-1.4
		2,3,4,6,7,8-HXCDF	0.0795 ng/Kg	SL-266-SA6-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0560 ng/Kg	SL-311-SA6-SB-2.0-3.0
		OCDD	0.396 ng/Kg	
		OCDF	0.179 ng/Kg	

Method Blank Outlier Report

Lab Reporting Batch ID: DX132 Laboratory: LL

EDD Filename: DX132_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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
DUP14-SA6-QC-090111(RES)	1,2,3,4,6,7,8-HPCDD	0.297 ng/Kg	0.297U ng/Kg
DUP14-SA6-QC-090111(RES)	1,2,3,4,6,7,8-HPCDF	0.187 ng/Kg	0.187U ng/Kg
DUP14-SA6-QC-090111(RES)	1,2,3,4,7,8,9-HPCDF	0.0361 ng/Kg	0.0361U ng/Kg
DUP14-SA6-QC-090111(RES)	1,2,3,4,7,8-HXCDF	0.0602 ng/Kg	0.0602U ng/Kg
DUP14-SA6-QC-090111(RES)	1,2,3,6,7,8-HXCDD	0.0375 ng/Kg	0.0375U ng/Kg
DUP14-SA6-QC-090111(RES)	1,2,3,6,7,8-HXCDF	0.0267 ng/Kg	0.0267U ng/Kg
DUP14-SA6-QC-090111(RES)	1,2,3,7,8,9-HXCDD	0.0327 ng/Kg	0.0327U ng/Kg
DUP14-SA6-QC-090111(RES)	1,2,3,7,8,9-HXCDF	0.0345 ng/Kg	0.0345U ng/Kg
DUP14-SA6-QC-090111(RES)	1,2,3,7,8-PECDF	0.0296 ng/Kg	0.0296U ng/Kg
DUP14-SA6-QC-090111(RES)	2,3,4,6,7,8-HXCDF	0.0523 ng/Kg	0.0523U ng/Kg
DUP14-SA6-QC-090111(RES)	2,3,4,7,8-PECDF	0.0657 ng/Kg	0.0657U ng/Kg
DUP14-SA6-QC-090111(RES)	OCDD	0.818 ng/Kg	0.818U ng/Kg
DUP14-SA6-QC-090111(RES)	OCDF	0.168 ng/Kg	0.168U ng/Kg
SL-204-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.704 ng/Kg	0.704U ng/Kg
SL-204-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.299 ng/Kg	0.299U ng/Kg
SL-204-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0812 ng/Kg	0.0812U ng/Kg
SL-204-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.157 ng/Kg	0.157U ng/Kg
SL-204-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0670 ng/Kg	0.0670U ng/Kg
SL-204-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.114 ng/Kg	0.114U ng/Kg
SL-204-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0649 ng/Kg	0.0649U ng/Kg
SL-204-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0860 ng/Kg	0.0860U ng/Kg
SL-204-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.125 ng/Kg	0.125U ng/Kg
SL-204-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.208 ng/Kg	0.208U ng/Kg
SL-204-SA6-SB-4.0-5.0(RES)	OCDF	0.535 ng/Kg	0.535U ng/Kg
SL-205-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.991 ng/Kg	0.991U ng/Kg
SL-205-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.447 ng/Kg	0.447U ng/Kg
SL-205-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0831 ng/Kg	0.0831U ng/Kg
SL-205-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.148 ng/Kg	0.148U ng/Kg
SL-205-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0407 ng/Kg	0.0407U ng/Kg
SL-205-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.113 ng/Kg	0.113U ng/Kg
SL-205-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0520 ng/Kg	0.0520U ng/Kg
SL-205-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0328 ng/Kg	0.0328U ng/Kg
SL-205-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0162 ng/Kg	0.0162U ng/Kg
SL-205-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0869 ng/Kg	0.0869U ng/Kg
SL-205-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.206 ng/Kg	0.206U ng/Kg
SL-261-SA6-SB-1.5-2.5(RES)	2,3,4,6,7,8-HXCDF	0.296 ng/Kg	0.296U ng/Kg
SL-261-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.334 ng/Kg	0.334U ng/Kg
SL-261-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.245 ng/Kg	0.245U ng/Kg
SL-261-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0780 ng/Kg	0.0780U ng/Kg
SL-261-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.185 ng/Kg	0.185U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX132 **Laboratory: LL**

EDD Filename: DX132_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-261-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.165 ng/Kg	0.165U ng/Kg
SL-261-SA6-SB-9.0-10.0(RES)	OCDD	0.621 ng/Kg	0.621U ng/Kg
SL-261-SA6-SB-9.0-10.0(RES)	OCDF	0.251 ng/Kg	0.251U ng/Kg
SL-262-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.353 ng/Kg	0.353U ng/Kg
SL-262-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.166 ng/Kg	0.166U ng/Kg
SL-262-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0351 ng/Kg	0.0351U ng/Kg
SL-262-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0458 ng/Kg	0.0458U ng/Kg
SL-262-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0451 ng/Kg	0.0451U ng/Kg
SL-262-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0320 ng/Kg	0.0320U ng/Kg
SL-262-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0762 ng/Kg	0.0762U ng/Kg
SL-262-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0147 ng/Kg	0.0147U ng/Kg
SL-262-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0625 ng/Kg	0.0625U ng/Kg
SL-262-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0569 ng/Kg	0.0569U ng/Kg
SL-262-SA6-SB-4.0-5.0(RES)	OCDF	0.343 ng/Kg	0.343U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.363 ng/Kg	0.363U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.230 ng/Kg	0.230U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0567 ng/Kg	0.0567U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0493 ng/Kg	0.0493U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.106 ng/Kg	0.106U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0762 ng/Kg	0.0762U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.101 ng/Kg	0.101U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0906 ng/Kg	0.0906U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.163 ng/Kg	0.163U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	OCDD	1.37 ng/Kg	1.37U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	OCDF	0.258 ng/Kg	0.258U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.250 ng/Kg	0.250U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.196 ng/Kg	0.196U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0360 ng/Kg	0.0360U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0565 ng/Kg	0.0565U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0205 ng/Kg	0.0205U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0287 ng/Kg	0.0287U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0196 ng/Kg	0.0196U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0262 ng/Kg	0.0262U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0175 ng/Kg	0.0175U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0616 ng/Kg	0.0616U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0485 ng/Kg	0.0485U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	OCDD	0.522 ng/Kg	0.522U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	OCDF	0.205 ng/Kg	0.205U ng/Kg
SL-264-SA6-SB-0.4-1.4(RES)	1,2,3,4,6,7,8-HPCDF	0.654 ng/Kg	0.654U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX132 Laboratory: LL

EDD Filename: DX132_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-264-SA6-SB-0.4-1.4(RES)	1,2,3,4,7,8,9-HPCDF	0.105 ng/Kg	0.105U ng/Kg
SL-264-SA6-SB-0.4-1.4(RES)	1,2,3,4,7,8-HXCDF	0.117 ng/Kg	0.117U ng/Kg
SL-264-SA6-SB-0.4-1.4(RES)	1,2,3,6,7,8-HXCDF	0.0869 ng/Kg	0.0869U ng/Kg
SL-264-SA6-SB-0.4-1.4(RES)	1,2,3,7,8-PECDD	0.0749 ng/Kg	0.0749U ng/Kg
SL-264-SA6-SB-0.4-1.4(RES)	1,2,3,7,8-PECDF	0.0720 ng/Kg	0.0720U ng/Kg
SL-264-SA6-SB-0.4-1.4(RES)	2,3,4,6,7,8-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-264-SA6-SB-0.4-1.4(RES)	2,3,4,7,8-PECDF	0.121 ng/Kg	0.121U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.01 ng/Kg	1.01U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.380 ng/Kg	0.380U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0775 ng/Kg	0.0775U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0604 ng/Kg	0.0604U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0679 ng/Kg	0.0679U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0335 ng/Kg	0.0335U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0224 ng/Kg	0.0224U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0300 ng/Kg	0.0300U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0548 ng/Kg	0.0548U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0564 ng/Kg	0.0564U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	OCDF	0.769 ng/Kg	0.769U ng/Kg
SL-311-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.666 ng/Kg	0.666U ng/Kg
SL-311-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0913 ng/Kg	0.0913U ng/Kg
SL-311-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.147 ng/Kg	0.147U ng/Kg
SL-311-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.131 ng/Kg	0.131U ng/Kg
SL-311-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0717 ng/Kg	0.0717U ng/Kg
SL-311-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.0246 ng/Kg	0.0246U ng/Kg
SL-311-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0742 ng/Kg	0.0742U ng/Kg
SL-311-SA6-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-311-SA6-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.178 ng/Kg	0.178U ng/Kg
SL-311-SA6-SB-2.0-3.0(RES)	OCDF	0.786 ng/Kg	0.786U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX132 Laboratory: LL

EDD Filename: DX132_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: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-262-SA6-SB-4.0-5.0	DUP14-SA6-QC-090111			
1,2,3,4,6,7,8-HPCDD	0.353	0.297	17	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.166	0.187	12	50.00	
1,2,3,4,7,8,9-HPCDF	0.0351	0.0361	3	50.00	
1,2,3,4,7,8-HXCDF	0.0458	0.0602	27	50.00	
1,2,3,6,7,8-HXCDD	0.0451	0.0375	18	50.00	
1,2,3,6,7,8-HXCDF	0.0320	0.0267	18	50.00	
2,3,4,6,7,8-HXCDF	0.0625	0.0523	18	50.00	
2,3,4,7,8-PECDF	0.0569	0.0657	14	50.00	
1,2,3,7,8,9-HXCDD	0.0762	0.0327	80	50.00	J(all detects) UJ(all non-detects)
1,2,3,7,8,9-HXCDF	5.44 U	0.0345	200	50.00	
1,2,3,7,8-PECDF	0.0147	0.0296	67	50.00	
2,3,7,8-TCDF	1.09 U	0.0186	200	50.00	
OCDD	2.08	0.818	87	50.00	
OCDF	0.343	0.168	68	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX132 | Laboratory: LL

EDD Filename: DX132_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-090711	1,2,3,4,6,7,8-HPCDD	JB	2.78	9.85	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JBQ	2.98	9.85	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.355	9.85	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.618	9.85	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.297	9.85	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JQ	0.296	9.85	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.436	9.85	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.324	9.85	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.309	9.85	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.684	9.85	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.344	9.85	PQL	pg/L	
	OCDD	JBQ	6.01	19.7	PQL	pg/L	
	OCDF	JB	2.71	19.7	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP14-SA6-QC-090111	1,2,3,4,6,7,8-HPCDD	JB	0.297	5.49	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.187	5.49	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0361	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0602	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0375	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0267	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0327	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0345	5.49	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0296	5.49	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0523	5.49	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0657	5.49	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0186	1.10	PQL	ng/Kg	
	OCDD	JB	0.818	11.0	PQL	ng/Kg	
	OCDF	JB	0.168	11.0	PQL	ng/Kg	
SL-204-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.704	5.36	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.299	5.36	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0812	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0678	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.157	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0670	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.114	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0649	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0860	5.36	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.167	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.193	5.36	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.125	5.36	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.208	5.36	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0539	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0632	1.07	PQL	ng/Kg	
	OCDD	JB	7.69	10.7	PQL	ng/Kg	
	OCDF	JB	0.535	10.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX132 | Laboratory: LL

EDD Filename: DX132_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-205-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.991	5.45	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.447	5.45	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0831	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.148	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0407	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.113	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0520	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0328	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0162	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.719	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0869	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.206	5.45	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.360	1.09	PQL	ng/Kg	
	OCDD	JB	10.4	10.9	PQL	ng/Kg	
	OCDF	JB	1.04	10.9	PQL	ng/Kg	
SL-258-SA6-SB-0.0-0.83	1,2,3,4,7,8,9-HPCDF	JB	1.12	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.901	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.87	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.75	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.755	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.30	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.317	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.300	5.07	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.831	5.07	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.611	5.07	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0449	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.296	1.01	PQL	ng/Kg	
SL-261-SA6-SB-1.5-2.5	1,2,3,4,6,7,8-HPCDF	JB	1.63	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.184	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.197	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.382	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.587	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.313	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.539	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.406	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.408	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.604	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.296	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.540	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.108	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.479	1.10	PQL	ng/Kg	
	OCDF	JB	3.73	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX132 Laboratory: LL

EDD Filename: DX132_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-261-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.334	5.48	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.245	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0780	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.131	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.257	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.124	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.185	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.102	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.183	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.284	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.345	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.165	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.347	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.102	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.118	1.10	PQL	ng/Kg	
	OCDD	JB	0.621	11.0	PQL	ng/Kg	
	OCDF	JB	0.251	11.0	PQL	ng/Kg	
SL-262-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.353	5.44	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.166	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0351	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0458	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0451	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0320	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0762	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0147	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0625	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0569	5.44	PQL	ng/Kg	
	OCDD	JB	2.08	10.9	PQL	ng/Kg	
	OCDF	JB	0.343	10.9	PQL	ng/Kg	
SL-263-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.363	5.44	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.230	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0567	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0536	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.135	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0493	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.106	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0762	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.101	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.132	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.178	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0906	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.163	5.44	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0590	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0577	1.09	PQL	ng/Kg	
	OCDD	JB	1.37	10.9	PQL	ng/Kg	
	OCDF	JB	0.258	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX132 **Laboratory: LL**

EDD Filename: DX132_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-263-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.250	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.196	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0360	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0565	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0205	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0287	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0196	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0262	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0175	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0616	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0485	5.57	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0205	1.11	PQL	ng/Kg	
	OCDD	JB	0.522	11.1	PQL	ng/Kg	
	OCDF	JB	0.205	11.1	PQL	ng/Kg	
SL-264-SA6-SB-0.4-1.4	1,2,3,4,6,7,8-HPCDD	JB	2.09	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.654	5.09	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.105	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0819	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.117	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.134	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0869	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.165	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.143	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0749	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0720	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.110	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.121	5.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0193	1.02	PQL	ng/Kg	
	OCDF	JB	1.42	10.2	PQL	ng/Kg	
SL-266-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.01	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.380	5.38	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0775	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0604	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0679	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0335	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.102	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.110	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0224	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0300	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0548	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0564	5.38	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0213	1.08	PQL	ng/Kg	
	OCDD	JB	10.4	10.8	PQL	ng/Kg	
	OCDF	JB	0.769	10.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX132 | Laboratory: LL

EDD Filename: DX132_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-311-SA6-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	1.47	5.33	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.666	5.33	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0913	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.147	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.111	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.131	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.111	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0717	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0246	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0742	5.33	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.118	5.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.178	5.33	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.203	1.07	PQL	ng/Kg	
	OCDD	JB	9.15	10.7	PQL	ng/Kg	
	OCDF	JB	0.786	10.7	PQL	ng/Kg	

Enclosure II

Level IV Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	September 1 through September 7, 2011
LDC Report Date:	December 28, 2011
Matrix:	Soil/Water
Parameters:	Dioxins/Dibenzofurans
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DX132

Sample Identification

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
DUP14-SA6-QC-090111
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
SL-205-SA6-SB-4.0-5.0
SL-311-SA6-SB-2.0-3.0
EB-SA6-WB-090711
SL-262-SA6-SB-4.0-5.0MS
SL-262-SA6-SB-4.0-5.0MSD

Introduction

This data review covers 14 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1613B for Polychlorinated Dioxins/Dibenzofurans.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and the USEPA Contract Laboratory Program National Functional Guidelines for Polychlorinated Dioxins/Dibenzofurans Data Review (September 2005).

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

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

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

II. HRGC/HRMS Instrument Performance Check

Instrument performance was checked at the required daily frequency.

The chromatographic resolution between 2,3,7,8-TCDD and the peaks representing any other unlabeled TCDD isomers was resolved with a valley of less than or equal to 25%.

PFK and static resolving power were within validation criteria.

III. Initial Calibration

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for unlabeled compounds and less than or equal to 35.0% for labeled compounds.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

The minimum S/N ratio was greater than or equal to 10 for each unlabeled compound and labeled compound.

IV. Routine Calibration (Continuing)

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were within QC limits.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated dioxin/dibenzofuran contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
BLK26001	9/13/11	2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.680 pg/L 0.426 pg/L 0.637 pg/L 0.529 pg/L 0.833 pg/L 0.441 pg/L 0.617 pg/L 0.652 pg/L 0.522 pg/L 2.13 pg/L 2.87 pg/L 0.770 pg/L 4.54 pg/L 1.21 pg/L	All water samples in SDG DX132
BLK257002	9/15/11	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0181 ng/Kg 0.0560 ng/Kg 0.0158 ng/Kg 0.0509 ng/Kg 0.0471 ng/Kg 0.0795 ng/Kg 0.0140 ng/Kg 0.0192 ng/Kg 0.0275 ng/Kg 0.214 ng/Kg 0.215 ng/Kg 0.0353 ng/Kg 0.396 ng/Kg 0.179 ng/Kg	All soil samples in SDG DX132

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

Sample	Compound	Reported Concentration	Modified Final Concentration
EB-SA6-WB-090711	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.309 pg/L 0.344 pg/L 0.297 pg/L 0.684 pg/L 0.618 pg/L 0.436 pg/L 0.324 pg/L 2.98 pg/L 2.78 pg/L 0.355 pg/L 6.01 pg/L 2.71 pg/L	0.309U pg/L 0.344U pg/L 0.297U pg/L 0.684U pg/L 0.618U pg/L 0.436U pg/L 0.324U pg/L 2.98U pg/L 2.78U pg/L 0.355U pg/L 6.01U pg/L 2.71U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-262-SA6-SB-4.0-5.0	1,2,3,7,8-PeCDF	0.0147 ng/Kg	0.0147U ng/Kg
	2,3,4,7,8-PeCDF	0.0569 ng/Kg	0.0569U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0458 ng/Kg	0.0458U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0320 ng/Kg	0.0320U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0625 ng/Kg	0.0625U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0451 ng/Kg	0.0451U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0762 ng/Kg	0.0762U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.166 ng/Kg	0.166U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.353 ng/Kg	0.353U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0351 ng/Kg	0.0351U ng/Kg
	OCDF	0.343 ng/Kg	0.343U ng/Kg
SL-264-SA6-SB-0.4-1.4	1,2,3,7,8-PeCDF	0.0720 ng/Kg	0.0720U ng/Kg
	2,3,4,7,8-PeCDF	0.121 ng/Kg	0.121U ng/Kg
	1,2,3,7,8-PeCDD	0.0749 ng/Kg	0.0749U ng/Kg
	1,2,3,4,7,8-HxCDF	0.117 ng/Kg	0.117U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0869 ng/Kg	0.0869U ng/Kg
	2,3,4,6,7,8-HxCDF	0.110 ng/Kg	0.110U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.654 ng/Kg	0.654U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.105 ng/Kg	0.105U ng/Kg
SL-266-SA6-SB-4.0-5.0	1,2,3,7,8-PeCDF	0.0300 ng/Kg	0.0300U ng/Kg
	2,3,4,7,8-PeCDF	0.0564 ng/Kg	0.0564U ng/Kg
	1,2,3,7,8-PeCDD	0.0224 ng/Kg	0.0224U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0604 ng/Kg	0.0604U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0335 ng/Kg	0.0335U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0548 ng/Kg	0.0548U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0679 ng/Kg	0.0679U ng/Kg
	1,2,3,7,8,9-HxCDF	0.110 ng/Kg	0.110U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.380 ng/Kg	0.380U ng/Kg
	1,2,3,4,6,7,8-HpCDD	1.01 ng/Kg	1.01U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0775 ng/Kg	0.0775U ng/Kg
	OCDF	0.769 ng/Kg	0.769U ng/Kg
DUP14-SA6-QC-090111	1,2,3,7,8-PeCDF	0.0296 ng/Kg	0.0296U ng/Kg
	2,3,4,7,8-PeCDF	0.0657 ng/Kg	0.0657U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0602 ng/Kg	0.0602U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0267 ng/Kg	0.0267U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0523 ng/Kg	0.0523U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0375 ng/Kg	0.0375U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0327 ng/Kg	0.0327U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0345 ng/Kg	0.0345U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.187 ng/Kg	0.187U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.297 ng/Kg	0.297U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0361 ng/Kg	0.0361U ng/Kg
	OCDD	0.818 ng/Kg	0.818U ng/Kg
	OCDF	0.168 ng/Kg	0.168U ng/Kg
SL-204-SA6-SB-4.0-5.0	2,3,4,7,8-PeCDF	0.208 ng/Kg	0.208U ng/Kg
	1,2,3,4,7,8-HxCDF	0.157 ng/Kg	0.157U ng/Kg
	1,2,3,6,7,8-HxCDF	0.114 ng/Kg	0.114U ng/Kg
	2,3,4,6,7,8-HxCDF	0.125 ng/Kg	0.125U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0670 ng/Kg	0.0670U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0649 ng/Kg	0.0649U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0860 ng/Kg	0.0860U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.299 ng/Kg	0.299U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.704 ng/Kg	0.704U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0812 ng/Kg	0.0812U ng/Kg
	OCDF	0.535 ng/Kg	0.535U ng/Kg
SL-261-SA6-SB-1.5-2.5	2,3,4,6,7,8-HxCDF	0.296 ng/Kg	0.296U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-261-SA6-SB-9.0-10.0	1,2,3,6,7,8-HxCDF	0.185 ng/Kg	0.185U ng/Kg
	2,3,4,6,7,8-HxCDF	0.165 ng/Kg	0.165U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.245 ng/Kg	0.245U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.334 ng/Kg	0.334U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0780 ng/Kg	0.0780U ng/Kg
	OCDD	0.621 ng/Kg	0.621U ng/Kg
	OCDF	0.251 ng/Kg	0.251U ng/Kg
SL-263-SA6-SB-4.0-5.0	2,3,4,7,8-PeCDF	0.163 ng/Kg	0.163U ng/Kg
	1,2,3,4,7,8-HxCDF	0.135 ng/Kg	0.135U ng/Kg
	1,2,3,6,7,8-HxCDF	0.106 ng/Kg	0.106U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0906 ng/Kg	0.0906U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0493 ng/Kg	0.0493U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0762 ng/Kg	0.0762U ng/Kg
	1,2,3,7,8,9-HxCDF	0.101 ng/Kg	0.101U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.230 ng/Kg	0.230U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.363 ng/Kg	0.363U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0567 ng/Kg	0.0567U ng/Kg
	OCDD	1.37 ng/Kg	1.37U ng/Kg
	OCDF	0.258 ng/Kg	0.258U ng/Kg
SL-263-SA6-SB-9.0-10.0	1,2,3,7,8-PeCDF	0.0175 ng/Kg	0.0175U ng/Kg
	2,3,4,7,8-PeCDF	0.0485 ng/Kg	0.0485U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0565 ng/Kg	0.0565U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0287 ng/Kg	0.0287U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0616 ng/Kg	0.0616U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0205 ng/Kg	0.0205U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0196 ng/Kg	0.0196U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0262 ng/Kg	0.0262U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.196 ng/Kg	0.196U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.250 ng/Kg	0.250U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0360 ng/Kg	0.0360U ng/Kg
	OCDD	0.522 ng/Kg	0.522U ng/Kg
	OCDF	0.205 ng/Kg	0.205U ng/Kg
SL-311-SA6-SB-2.0-3.0	1,2,3,7,8-PeCDF	0.0742 ng/Kg	0.0742U ng/Kg
	2,3,4,7,8-PeCDF	0.178 ng/Kg	0.178U ng/Kg
	1,2,3,7,8-PeCDD	0.0246 ng/Kg	0.0246U ng/Kg
	1,2,3,4,7,8-HxCDF	0.147 ng/Kg	0.147U ng/Kg
	1,2,3,6,7,8-HxCDF	0.131 ng/Kg	0.131U ng/Kg
	2,3,4,6,7,8-HxCDF	0.118 ng/Kg	0.118U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0717 ng/Kg	0.0717U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.666 ng/Kg	0.666U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0913 ng/Kg	0.0913U ng/Kg
	OCDF	0.786 ng/Kg	0.786U ng/Kg
SL-205-SA6-SB-4.0-5.0	2,3,4,7,8-PeCDF	0.206 ng/Kg	0.206U ng/Kg
	1,2,3,7,8-PeCDD	0.0162 ng/Kg	0.0162U ng/Kg
	1,2,3,4,7,8-HxCDF	0.148 ng/Kg	0.148U ng/Kg
	1,2,3,6,7,8-HxCDF	0.113 ng/Kg	0.113U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0869 ng/Kg	0.0869U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0407 ng/Kg	0.0407U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0520 ng/Kg	0.0520U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0328 ng/Kg	0.0328U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.447 ng/Kg	0.447U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.991 ng/Kg	0.991U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0831 ng/Kg	0.0831U ng/Kg

Sample EB-SA6-WB-090711 was identified as an equipment blank. No polychlorinated dioxin/dibenzofuran contaminants were found with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB-SA6-WB-090711	9/7/11	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.309 pg/L 0.344 pg/L 0.297 pg/L 0.684 pg/L 0.618 pg/L 0.436 pg/L 0.324 pg/L 2.98 pg/L 2.78 pg/L 0.355 pg/L 6.01 pg/L 2.71 pg/L	SL-205-SA6-SB-4.0-5.0 SL-311-SA6-SB-2.0-3.0

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

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Laboratory Control Samples (LCS)

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

VIII. Regional Quality Assurance and Quality Control

Not applicable.

IX. Internal Standards

All internal standard recoveries were within QC limits.

X. Target Compound Identifications

All target compound identifications were within validation criteria.

XI. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DX132	All compounds reported below the RL.	J (all detects)	A

XII. System Performance

The system performance was acceptable.

XIII. Overall Assessment of Data

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

XIV. Field Duplicates

Samples SL-262-SA6-SB-4.0-5.0 and DUP14-SA6-QC-090111 were identified as field duplicates. No polychlorinated dioxins/dibenzofurans were detected in any of the samples with the following exceptions:

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	SL-262-SA6-SB-4.0-5.0	DUP14-SA6-QC-090111			
2,3,7,8-TCDF	1.09U	0.0186	200 (≤50)	J (all detects) UJ (all non-detects)	A
1,2,3,7,8-PeCDF	0.0147	0.0296	67 (≤50)	J (all detects)	A
2,3,4,7,8-PeCDF	0.0569	0.0657	14 (≤50)	-	-
1,2,3,4,7,8-HxCDF	0.0458	0.0602	27 (≤50)	-	-
1,2,3,6,7,8-HxCDF	0.0320	0.0267	18 (≤50)	-	-
2,3,4,6,7,8-HxCDF	0.0625	0.0523	18 (≤50)	-	-
1,2,3,6,7,8-HxCDD	0.0451	0.0375	18 (≤50)	-	-
1,2,3,7,8,9-HxCDD	0.0762	0.0327	80 (≤50)	J (all detects)	A
1,2,3,7,8,9-HxCDF	5.44U	0.0345	200 (≤50)	J (all detects) UJ (all non-detects)	A
1,2,3,4,6,7,8-HpCDF	0.166	0.187	12 (≤50)	-	-
1,2,3,4,6,7,8-HpCDD	0.353	0.297	17 (≤50)	-	-

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	SL-262-SA6-SB-4.0-5.0	DUP14-SA6-QC-090111			
1,2,3,4,7,8,9-HpCDF	0.0351	0.0361	3 (≤50)	-	-
OCDD	2.08	0.818	87 (≤50)	J (all detects)	A
OCDF	0.343	0.168	68 (≤50)	J (all detects)	A

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Data Qualification Summary - SDG DX132

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DX132	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 DUP14-SA6-QC-090111 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 SL-205-SA6-SB-4.0-5.0 SL-311-SA6-SB-2.0-3.0 EB-SA6-WB-090711	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)
DX132	SL-262-SA6-SB-4.0-5.0 DUP14-SA6-QC-090111	2,3,7,8-TCDF 1,2,3,7,8,9-HxCDF	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)
DX132	SL-262-SA6-SB-4.0-5.0 DUP14-SA6-QC-090111	1,2,3,7,8-PeCDF 1,2,3,7,8,9-HxCDD OCDD OCDF	J (all detects) J (all detects) J (all detects) J (all detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Laboratory Blank Data Qualification Summary - SDG DX132

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX132	EB-SA6-WB-090711	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.309U pg/L 0.344U pg/L 0.297U pg/L 0.684U pg/L 0.618U pg/L 0.436U pg/L 0.324U pg/L 2.98U pg/L 2.78U pg/L 0.355U pg/L 6.01U pg/L 2.71U pg/L	A	B
DX132	SL-262-SA6-SB-4.0-5.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDF	0.0147U ng/Kg 0.0569U ng/Kg 0.0458U ng/Kg 0.0320U ng/Kg 0.0625U ng/Kg 0.0451U ng/Kg 0.0762U ng/Kg 0.166U ng/Kg 0.353U ng/Kg 0.0351U ng/Kg 0.343U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX132	SL-264-SA6-SB-0.4-1.4	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	0.0720U ng/Kg 0.121U ng/Kg 0.0749U ng/Kg 0.117U ng/Kg 0.0869U ng/Kg 0.110U ng/Kg 0.654U ng/Kg 0.105U ng/Kg	A	B
DX132	SL-266-SA6-SB-4.0-5.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDF	0.0300U ng/Kg 0.0564U ng/Kg 0.0224U ng/Kg 0.0604U ng/Kg 0.0335U ng/Kg 0.0548U ng/Kg 0.0679U ng/Kg 0.110U ng/Kg 0.380U ng/Kg 1.01U ng/Kg 0.0775U ng/Kg 0.769U ng/Kg	A	B
DX132	DUP14-SA6-QC-090111	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0296U ng/Kg 0.0657U ng/Kg 0.0602U ng/Kg 0.0267U ng/Kg 0.0523U ng/Kg 0.0375U ng/Kg 0.0327U ng/Kg 0.0345U ng/Kg 0.187U ng/Kg 0.297U ng/Kg 0.0361U ng/Kg 0.818U ng/Kg 0.168U ng/Kg	A	B
DX132	SL-204-SA6-SB-4.0-5.0	2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDF	0.208U ng/Kg 0.157U ng/Kg 0.114U ng/Kg 0.125U ng/Kg 0.0670U ng/Kg 0.0649U ng/Kg 0.0860U ng/Kg 0.299U ng/Kg 0.704U ng/Kg 0.0812U ng/Kg 0.535U ng/Kg	A	B
DX132	SL-261-SA6-SB-1.5-2.5	2,3,4,6,7,8-HxCDF	0.296U ng/Kg	A	B
DX132	SL-261-SA6-SB-9.0-10.0	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.185U ng/Kg 0.165U ng/Kg 0.245U ng/Kg 0.334U ng/Kg 0.0780U ng/Kg 0.621U ng/Kg 0.251U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX132	SL-263-SA6-SB-4.0-5.0	2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.163U ng/Kg 0.135U ng/Kg 0.106U ng/Kg 0.0906U ng/Kg 0.0493U ng/Kg 0.0762U ng/Kg 0.101U ng/Kg 0.230U ng/Kg 0.363U ng/Kg 0.0567U ng/Kg 1.37U ng/Kg 0.258U ng/Kg	A	B
DX132	SL-263-SA6-SB-9.0-10.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0175U ng/Kg 0.0485U ng/Kg 0.0565U ng/Kg 0.0287U ng/Kg 0.0616U ng/Kg 0.0205U ng/Kg 0.0196U ng/Kg 0.0262U ng/Kg 0.196U ng/Kg 0.250U ng/Kg 0.0360U ng/Kg 0.522U ng/Kg 0.205U ng/Kg	A	B
DX132	SL-311-SA6-SB-2.0-3.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.0742U ng/Kg 0.178U ng/Kg 0.0246U ng/Kg 0.147U ng/Kg 0.131U ng/Kg 0.118U ng/Kg 0.0717U ng/Kg 0.666U ng/Kg 0.0913U ng/Kg 0.786U ng/Kg	A	B
DX132	SL-205-SA6-SB-4.0-5.0	2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF	0.206U ng/Kg 0.0162U ng/Kg 0.148U ng/Kg 0.113U ng/Kg 0.0869U ng/Kg 0.0407U ng/Kg 0.0520U ng/Kg 0.0328U ng/Kg 0.447U ng/Kg 0.991U ng/Kg 0.0831U ng/Kg	A	B

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Field Blank Data Qualification Summary - SDG DX132

No Sample Data Qualified in this SDG

LDC #: 26850I21

SDG #: DX132

Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET

Level IV

Date: 12/27/11

Page: 1 of 1

Reviewer: EJ

2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/1 - 9/7/11
II.	HRGC/HRMS Instrument performance check	A	
III.	Initial calibration	A	% RSD ≤ 20/35
IV.	Routine calibration/~~ICV~~	A	QC limits
V.	Blanks	SW	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LCS
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	A	QC limits
X.	Target compound identifications	A	
XI.	Compound quantitation and CRQLs	A	
XII.	System performance	A	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	SW	D = 2 + 5
XV.	Field blanks	SW	EB = 13

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 + water

1	SL-258-SA6-SB-0.0-0.83	11	SL-205-SA6-SB-4.0-5.0	21	Blank 256001	31	
2	SL-262-SA6-SB-4.0-5.0	12	SL-311-SA6-SB-2.0-3.0	22	Blank 257002	32	
3	SL-264-SA6-SB-0.4-1.4	13	EB-SA6-WB-090711 W	23		33	
4	SL-266-SA6-SB-4.0-5.0	14	SL-262-SA6-SB-4.0-5.0MS	24		34	
5	DUP14-SA6-QC-090111	15	SL-262-SA6-SB-4.0-5.0MSD	25		35	
6	SL-204-SA6-SB-4.0-5.0	16		26		36	
7	SL-261-SA6-SB-1.5-2.5	17		27		37	
8	SL-261-SA6-SB-9.0-10.0	18		28		38	
9	SL-263-SA6-SB-4.0-5.0	19		29		39	
10	SL-263-SA6-SB-9.0-10.0	20		30		40	

Notes: